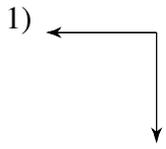
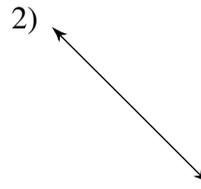


## 1st Semester Review - 0520 Geometry

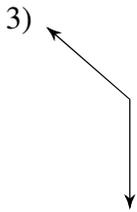
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**Classify each angle as acute, obtuse, right, or straight.**

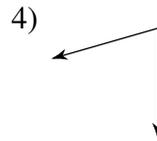
- A) straight      B) acute  
C) obtuse      D) right



- A) obtuse      B) straight  
C) acute      D) right



- A) straight      B) acute  
C) obtuse      D) right



- A) acute      B) obtuse  
C) straight      D) right

5)  $180^\circ$ 

- A) obtuse      B) straight  
C) acute      D) right

6)  $90^\circ$ 

- A) right      B) straight  
C) acute      D) obtuse

7)  $174^\circ$ 

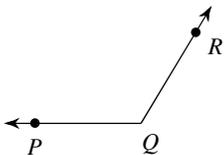
- A) right      B) obtuse  
C) acute      D) straight

8)  $64^\circ$ 

- A) right      B) straight  
C) obtuse      D) acute

**Name the vertex and sides of each angle.**

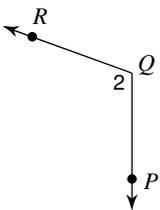
9)



- A)  $Q$ ,  $\overrightarrow{QP}$  and  $\overrightarrow{QR}$   
B)  $Q$ ,  $\overrightarrow{QP}$  and  $\overrightarrow{PR}$   
C)  $R$ ,  $\overrightarrow{QP}$  and  $\overrightarrow{QR}$   
D)  $P$ ,  $\overrightarrow{PQ}$  and  $\overrightarrow{PR}$

Name each angle in four ways.

10)

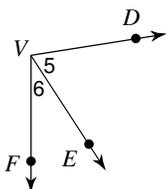


Choose the wrong name for this angle:

- A)  $\angle PQR$
- B)  $\angle Q$
- C)  $\angle QPR$
- D)  $\angle 2$

Name all the angles that have  $V$  as a vertex.

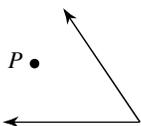
11)



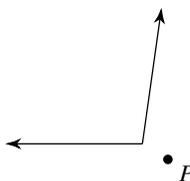
- A)  $\angle 5, \angle 6, \angle FED$
- B)  $\angle 5, \angle 6, \angle DVF$
- C)  $\angle 5, \angle 6, \angle EDV$
- D)  $\angle 5, \angle 6, \angle VFE$

State if the given point is interior, exterior, or on the angle.

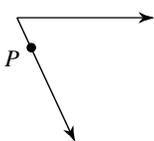
12)



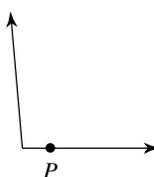
13)



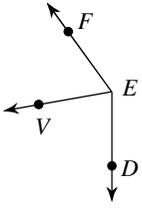
14)



15)

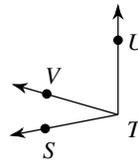


- 16)  $m\angle DEF = 144^\circ$  and  $m\angle VEF = 64^\circ$ .  
Find  $m\angle DEV$ .



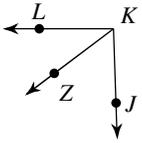
- A)  $93^\circ$       B)  $80^\circ$   
C)  $99^\circ$       D)  $100^\circ$

- 17) Find  $x$  if  $m\angle VTU = 6x + 14$ ,  
 $m\angle STV = x + 17$ , and  $m\angle STU = 101^\circ$ .



- A) 9              B) -7  
C) 2              D) 10

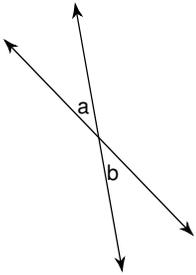
- 18)  $m\angle ZKL = 37^\circ$ ,  $m\angle JKZ = 7x - 8$ ,  
and  $m\angle JKL = 11x - 7$ . Find  $m\angle JKZ$ .



- A)  $39^\circ$       B)  $56^\circ$   
C)  $38^\circ$       D)  $55^\circ$

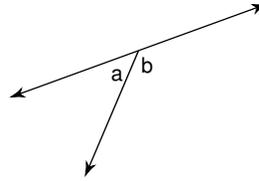
**Name the relationship: complementary, linear pair, vertical, or adjacent.**

19)



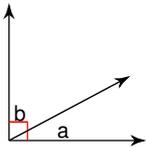
- A) linear pair              B) vertical  
C) alternate exterior      D) adjacent

20)



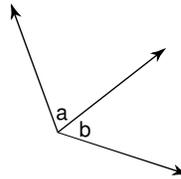
- A) complementary  
B) alternate exterior  
C) alternate interior  
D) linear pair

21)



- A) alternate exterior  
B) linear pair  
C) vertical  
D) complementary

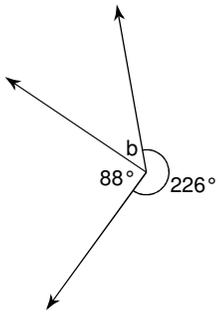
22)



- A) complementary  
B) linear pair  
C) adjacent  
D) corresponding

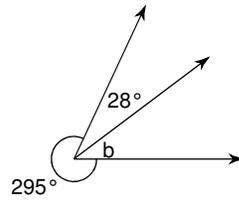
Find the measure of angle b.

23)



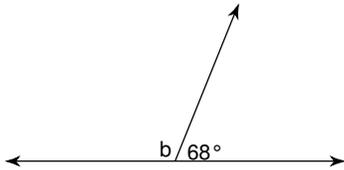
- A)  $44^\circ$       B)  $134^\circ$   
 C)  $136^\circ$       D)  $46^\circ$

24)



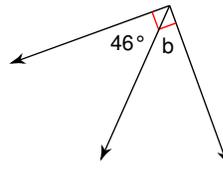
- A)  $96^\circ$       B)  $143^\circ$   
 C)  $37^\circ$       D)  $53^\circ$

25)



- A)  $89^\circ$       B)  $112^\circ$   
 C)  $22^\circ$       D)  $68^\circ$

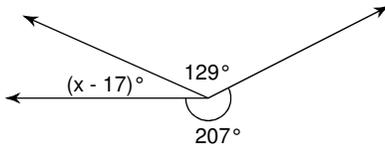
26)



- A)  $62^\circ$       B)  $44^\circ$   
 C)  $136^\circ$       D)  $152^\circ$

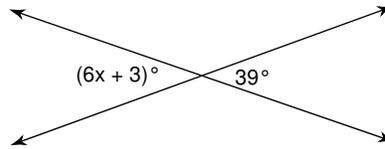
Find the value of x.

27)



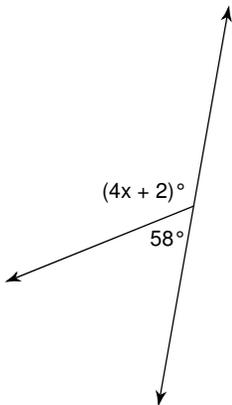
- A) 41      B) 36  
 C) 35      D) 37

28)



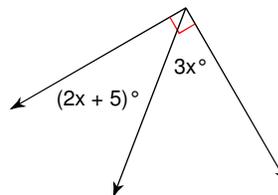
- A) 6      B) 18  
 C) 10      D) 16

29)



- A) 31      B) 36  
 C) 30      D) 35

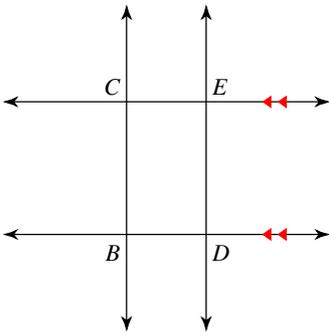
30)



- A) 12      B) 11  
 C) 17      D) 8

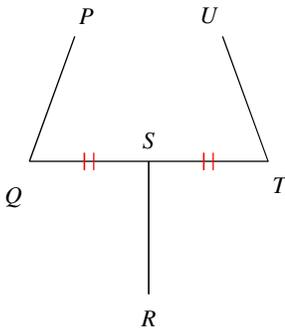
List all information given by the marks on the diagram.

31)



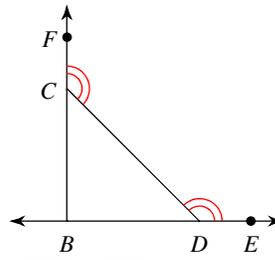
- A)  $\overrightarrow{DB} \parallel \overrightarrow{EC}$   
 B)  $\angle CDB \cong \angle CBD$   
 C)  $\overrightarrow{EF} \parallel \overrightarrow{BD}$   
 D)  $\overline{GF} \cong \overline{BC}$

33)



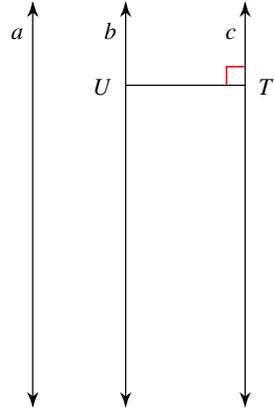
- A)  $\angle UST \cong \angle UTS$   
 B)  $\overline{SU} \cong \overline{RT}$   
 C)  $\overline{TS} \cong \overline{SQ}$   
 D)  $\overline{SR} \cong \overline{UT}$

32)



- A)  $\overline{EC} \cong \overline{DB}$   
 B)  $\angle CDE \cong \angle DCF$   
 C)  $\overline{EC} \parallel \overline{DB}$   
 D)  $q \parallel p$

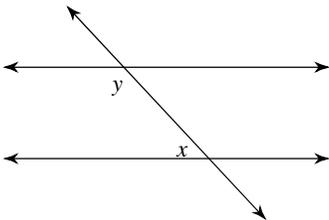
34)



- A)  $\overline{TU} \perp c$   
 B)  $\overline{WU} \perp \overline{UT}$   
 C)  $\overline{WU} \cong \overline{VT}$   
 D)  $a \parallel b$

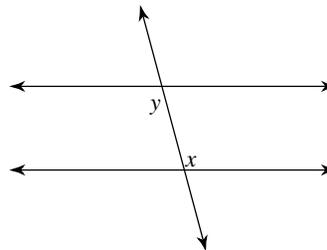
Identify each pair of angles as corresponding, alternate interior, alternate exterior, or same-side interior.

35)



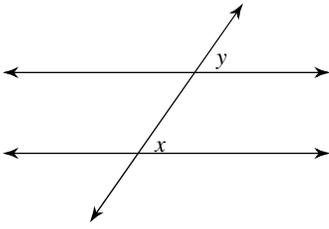
- A) alternate interior  
 B) alternate exterior  
 C) corresponding  
 D) same-side interior

36)



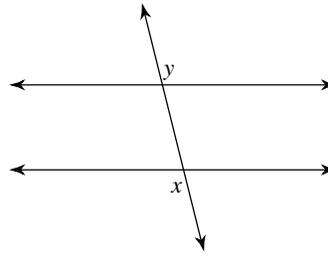
- A) same-side interior  
 B) alternate exterior  
 C) corresponding  
 D) alternate interior

37)



- A) alternate interior
- B) same-side interior
- C) alternate exterior
- D) corresponding

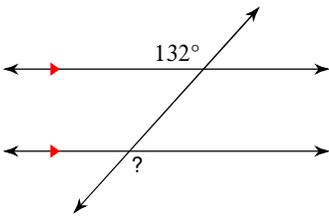
38)



- A) corresponding
- B) same-side interior
- C) alternate interior
- D) alternate exterior

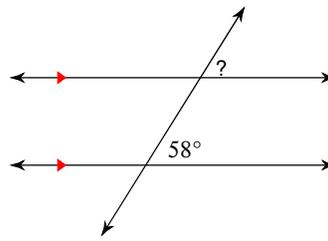
**Find the measure of each angle indicated.**

39)



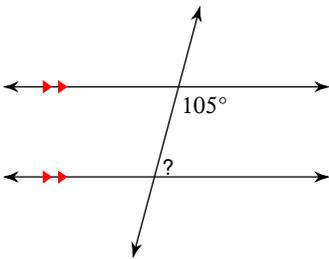
- A)  $118^\circ$
- B)  $132^\circ$
- C)  $61^\circ$
- D)  $38^\circ$

40)



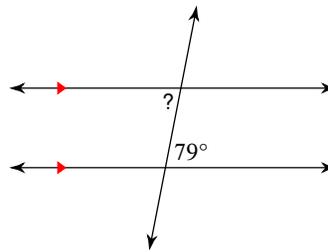
- A)  $140^\circ$
- B)  $58^\circ$
- C)  $76^\circ$
- D)  $60^\circ$

41)



- A)  $120^\circ$
- B)  $75^\circ$
- C)  $110^\circ$
- D)  $63^\circ$

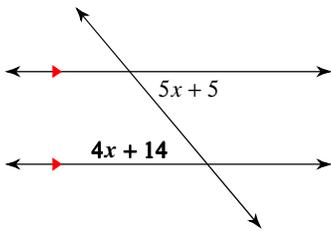
42)



- A)  $75^\circ$
- B)  $84^\circ$
- C)  $79^\circ$
- D)  $106^\circ$

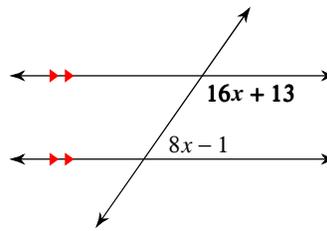
Find the measure of the angle indicated in bold.

43)



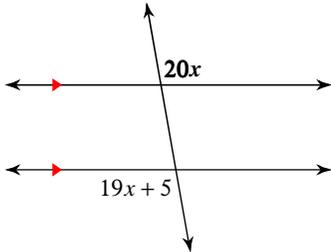
- A)  $65^\circ$       B)  $50^\circ$   
C)  $60^\circ$       D)  $44^\circ$

44)



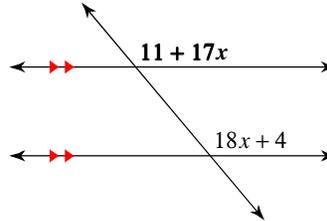
- A)  $60^\circ$       B)  $125^\circ$   
C)  $95^\circ$       D)  $135^\circ$

45)



- A)  $125^\circ$       B)  $100^\circ$   
C)  $127^\circ$       D)  $95^\circ$

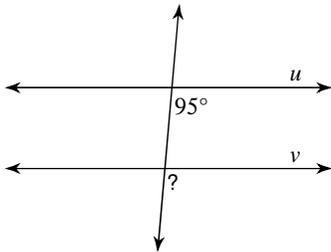
46)



- A)  $130^\circ$       B)  $110^\circ$   
C)  $40^\circ$       D)  $109^\circ$

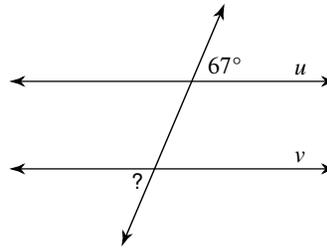
Find the measure of the indicated angle that makes lines  $u$  and  $v$  parallel.

47)



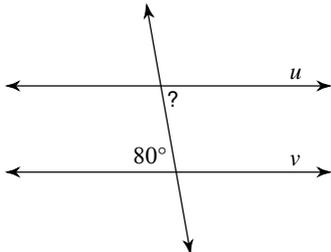
- A)  $105^\circ$       B)  $95^\circ$   
C)  $75^\circ$       D)  $70^\circ$

48)



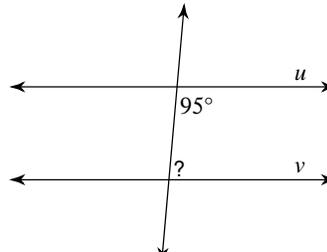
- A)  $75^\circ$       B)  $51^\circ$   
C)  $67^\circ$       D)  $143^\circ$

49)



- A)  $75^\circ$       B)  $120^\circ$   
C)  $80^\circ$       D)  $65^\circ$

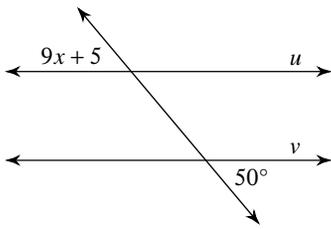
50)



- A)  $85^\circ$       B)  $95^\circ$   
C)  $98^\circ$       D)  $55^\circ$

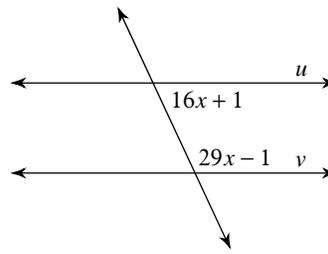
Find the value of  $x$  that makes lines  $u$  and  $v$  parallel.

51)



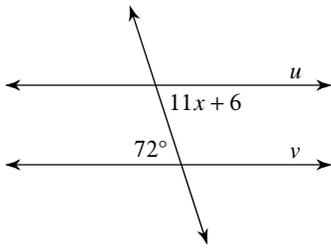
- A) 7      B) 5  
C) 9      D) -6

52)



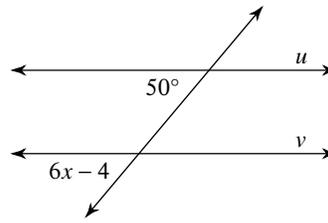
- A) 9      B) 5  
C) 6      D) 4

53)



- A) 7      B) 6  
C) -9     D) 10

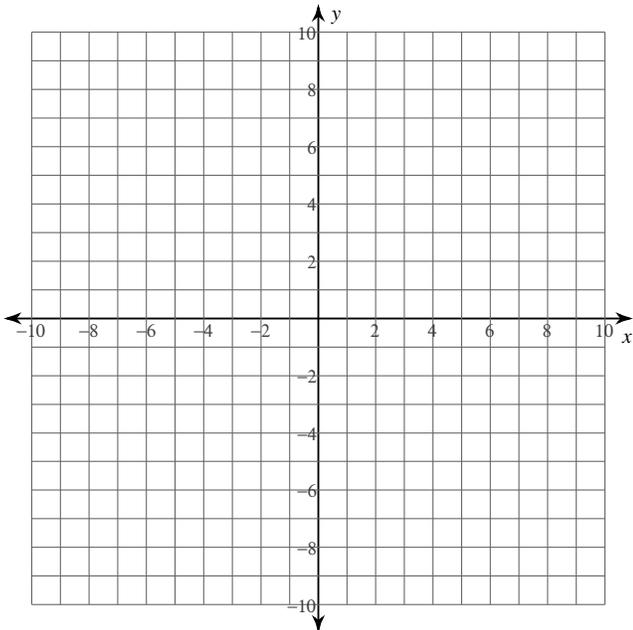
54)



- A) -9      B) 8  
C) 9      D) -8

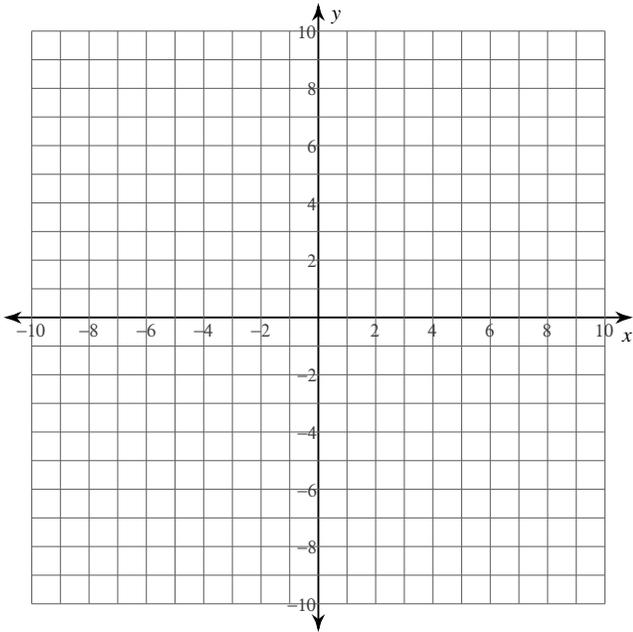
State the quadrant or axis that each point lies in.

55)  $(-6, 6)$



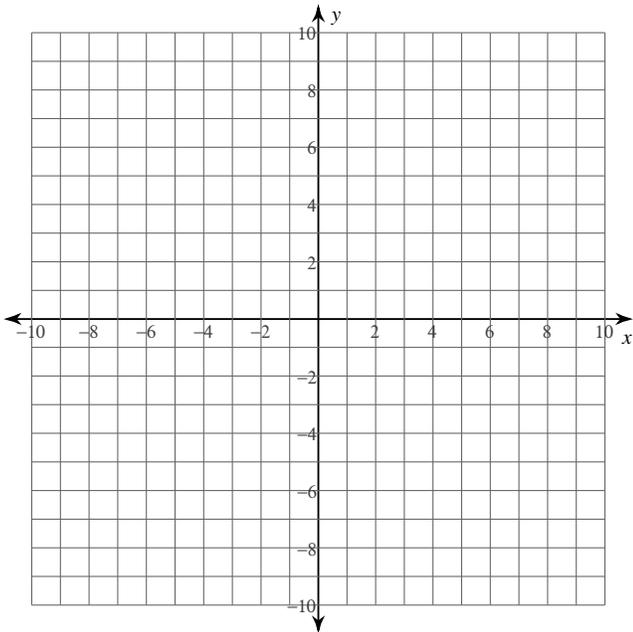
- A) II      B) IV  
C) I      D) y-axis

56)  $(-7, -9)$



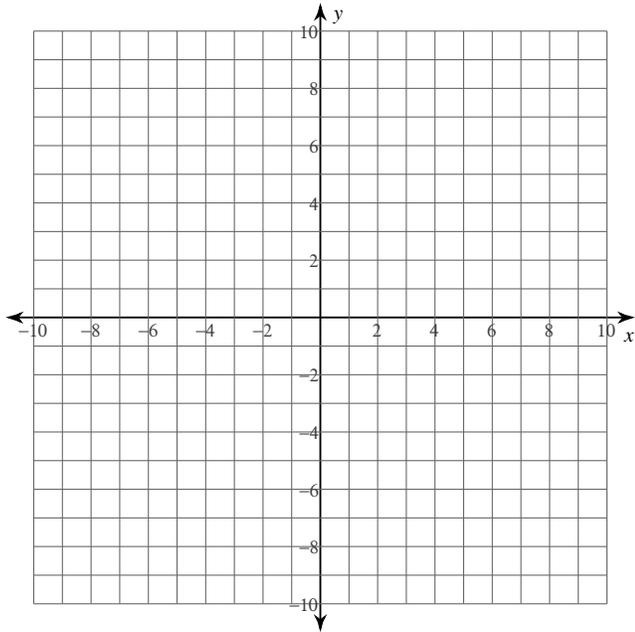
- A) x-axis      B) IV  
C) III        D) y-axis

57)  $(3, -8)$



- A) II          B) III  
C) IV        D) y-axis

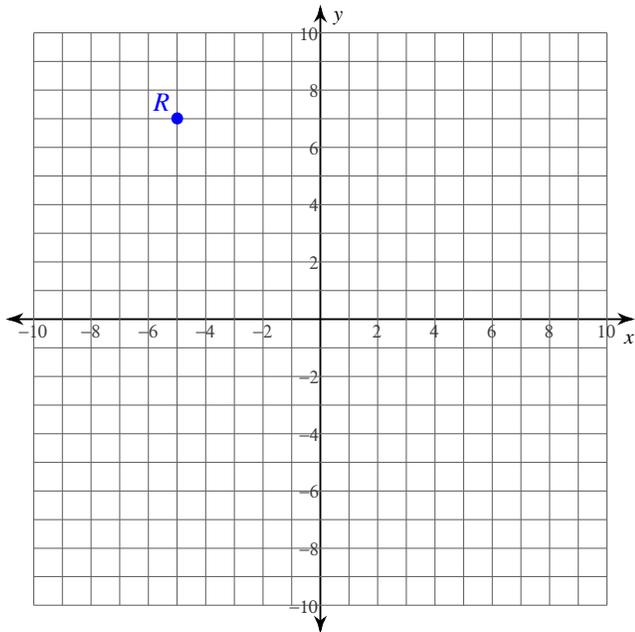
58)  $(0, -3)$



- A) I      B) III  
C) II     D) y-axis

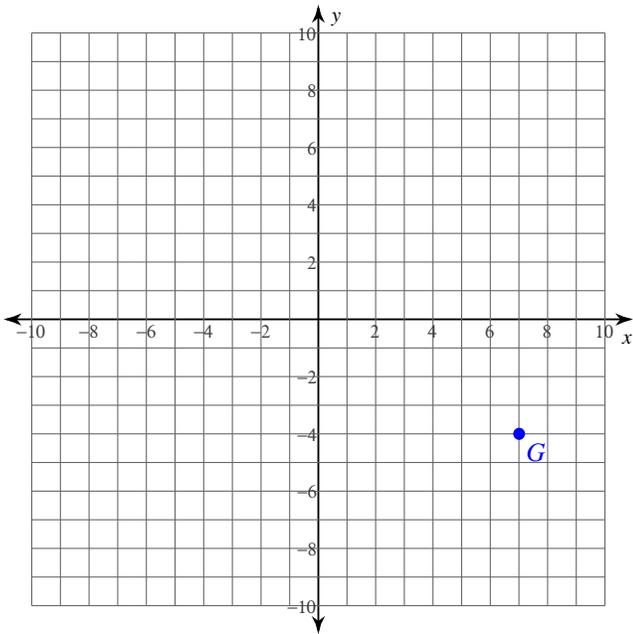
**State the coordinates of each point.**

59)



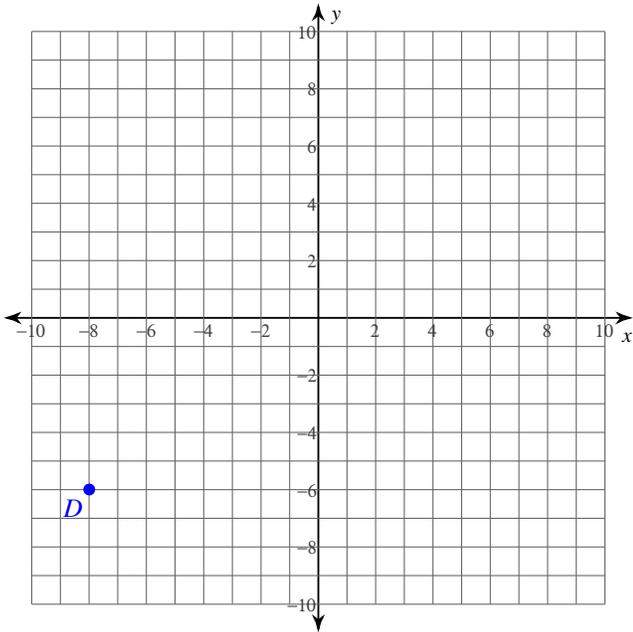
- A)  $R(-6, 7)$       B)  $R(-5, 7)$   
C)  $R(5, -7)$      D)  $R(-5, -7)$

60)



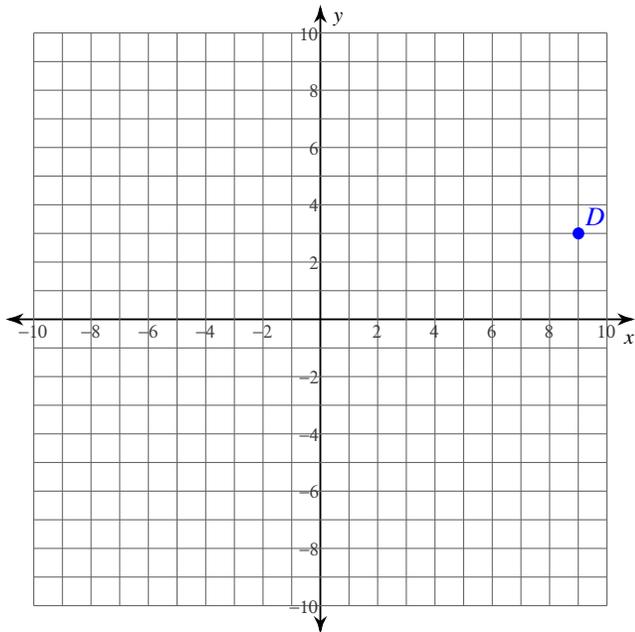
- A)  $G(7, -4)$       B)  $G(5, 7)$   
C)  $G(8, -4)$       D)  $G(-4, 7)$

61)



- A)  $D(-8, 6)$       B)  $D(-8, -6)$   
C)  $D(-8, -7)$       D)  $D(-6, -9)$

62)



- A)  $D(8, 3)$       B)  $D(9, 3)$   
C)  $D(9, -2)$       D)  $D(-10, 3)$

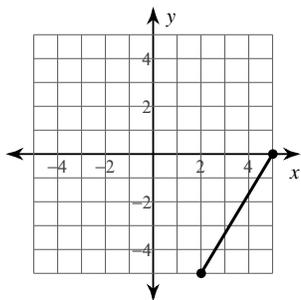
**Find the midpoint of the line segment with the given endpoints.**

63)  $(-5, -6)$ ,  $(-5, 6)$

- A)  $(-5, 0)$       B)  $\left(-5\frac{1}{2}, \frac{1}{2}\right)$   
C)  $(-5, 18)$       D)  $(0, -6)$

**Find the midpoint of each line segment.**

64)



- A)  $\left(1\frac{1}{2}, 2\frac{1}{2}\right)$       B)  $\left(2\frac{1}{2}, -1\frac{1}{2}\right)$   
C)  $(-1, -10)$       D)  $\left(3\frac{1}{2}, -2\frac{1}{2}\right)$

**Find the other endpoint of the line segment with the given endpoint and midpoint.**

65) Endpoint:  $(2, 0)$ , midpoint:  $(-5, -7)$

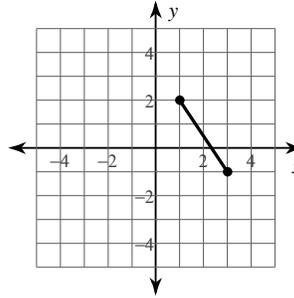
- A)  $(-12, -14)$       B)  $\left(-5\frac{1}{2}, \frac{1}{2}\right)$   
C)  $(1, -6)$         D)  $\left(3\frac{1}{2}, 3\frac{1}{2}\right)$

**Find the distance between each pair of points. Round your answer to the nearest tenth, if necessary.**

66)  $(-2, -3)$ ,  $(2, -8)$

- A) 3                    B) 11  
C) 6.4                D) 3.3

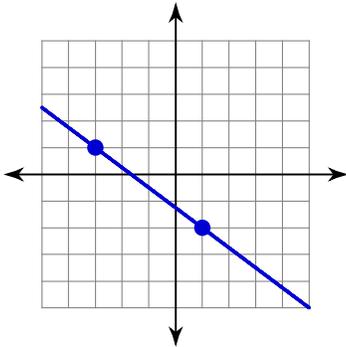
67)



- A) 3.6                B) 2.2  
C) 8.6                D) 4.1

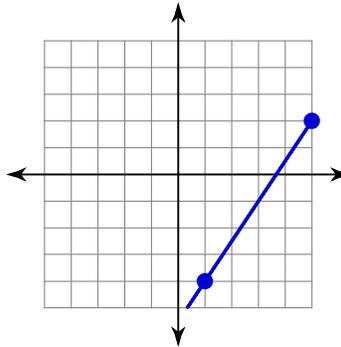
**Find the slope of each line.**

68)



- A)  $\frac{3}{4}$                 B)  $\frac{4}{3}$   
C)  $-\frac{4}{3}$             D)  $-\frac{3}{4}$

69)



- A)  $-\frac{2}{3}$             B)  $-\frac{3}{2}$   
C)  $\frac{3}{2}$               D)  $\frac{2}{3}$

**Find the slope of the line through each pair of points.**

70)  $(5, -8), (-9, -12)$

A)  $-\frac{2}{7}$       B)  $\frac{2}{7}$

C)  $-\frac{7}{2}$       D)  $\frac{7}{2}$

**Find the slope of each line.**

71)  $y = \frac{8}{5}x - 4$

A)  $-\frac{5}{8}$       B)  $\frac{5}{8}$

C)  $\frac{8}{5}$       D)  $-\frac{8}{5}$

**Find the slope of a line parallel to each given line.**

72)  $y = -\frac{1}{5}x - 3$

A)  $-\frac{1}{5}$       B) 5

C)  $\frac{1}{5}$       D) -5

**Find the slope of a line perpendicular to each given line.**

73)  $y = \frac{5}{3}x - 3$

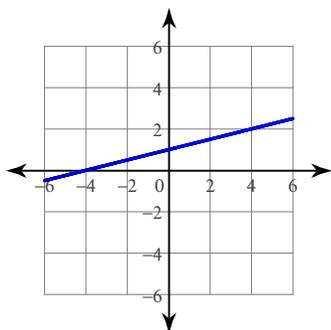
A)  $-\frac{5}{3}$       B)  $\frac{3}{5}$

C)  $\frac{5}{3}$       D)  $-\frac{3}{5}$

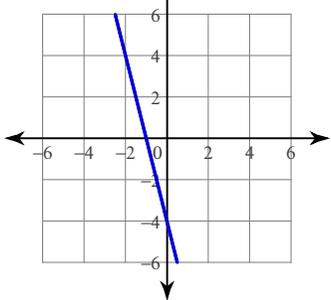
Sketch the graph of each line.

74)  $x$ -intercept = 1,  $y$ -intercept = 4

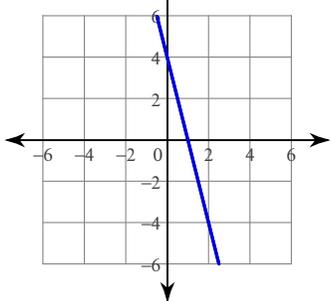
A)



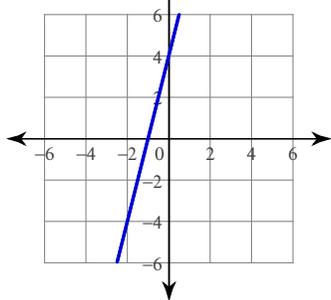
B)



C)

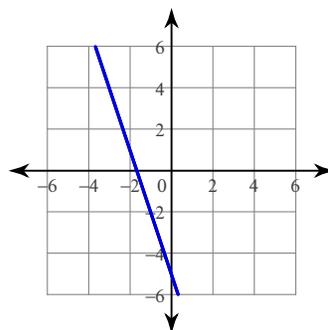


D)

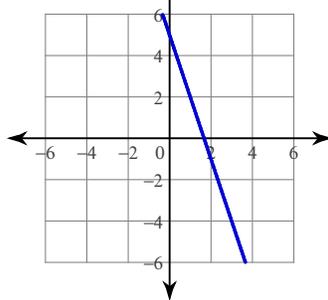


75)  $y = -3x - 5$

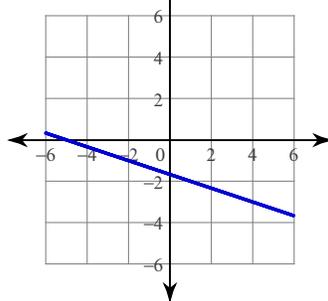
A)



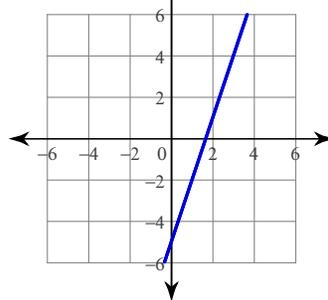
B)



C)

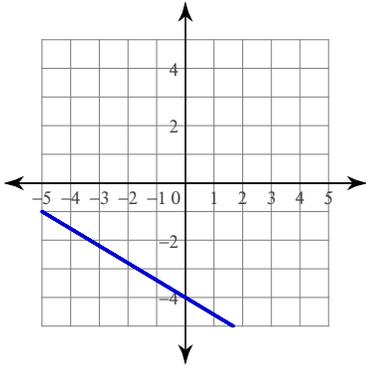


D)



Write the slope-intercept form of the equation of each line.

76)



- A)  $y = \frac{4}{5}x - 4$
- B)  $y = -\frac{3}{5}x - 4$
- C)  $y = \frac{1}{5}x - 4$
- D)  $y = \frac{3}{5}x - 4$

Write the slope-intercept form of the equation of each line given the slope and y-intercept.

77) Slope = 1, y-intercept = -1

- A)  $y = -2x - 1$
- B)  $y = 5x - 1$
- C)  $y = x - 1$
- D)  $y = -x - 1$

Write the slope-intercept form of the equation of each line.

78)  $7x - y = -2$

- A)  $y = 3x + 2$
- B)  $y = -3x + 2$
- C)  $y = -x + 2$
- D)  $y = 7x + 2$

79)  $y - 3 = -\frac{1}{4}(x + 3)$

- A)  $y = \frac{5}{4}x + \frac{1}{4}$
- B)  $y = \frac{9}{4}x + \frac{1}{4}$
- C)  $y = -\frac{1}{4}x + \frac{9}{4}$
- D)  $y = \frac{1}{4}x + \frac{9}{4}$

Write the slope-intercept form of the equation of the line through the given point with the given slope.

80) through:  $(-3, -1)$ , slope =  $\frac{3}{4}$

A)  $y = -x + \frac{5}{4}$

B)  $y = \frac{1}{2}x + \frac{5}{4}$

C)  $y = \frac{3}{4}x + \frac{5}{4}$

D)  $y = -\frac{1}{2}x + \frac{5}{4}$

Write the slope-intercept form of the equation of the line through the given points.

81) through:  $(-3, 3)$  and  $(-3, -2)$

A)  $x = 3$

B)  $x = 1$

C)  $x = -1$

D)  $x = -3$

Write the slope-intercept form of the equation of the line described.

82) through:  $(-3, 4)$ , parallel to  $y = -\frac{1}{7}x + 5$

A)  $y = -\frac{3}{7}x + \frac{25}{7}$

B)  $y = \frac{25}{7}x - \frac{1}{7}$

C)  $y = \frac{1}{7}x + \frac{25}{7}$

D)  $y = -\frac{1}{7}x + \frac{25}{7}$

83) through:  $(-3, 1)$ , perp. to  $y = -\frac{3}{4}x + 5$

A)  $y = 5x - \frac{4}{3}$

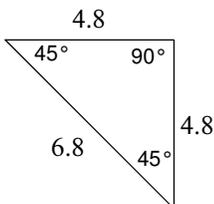
B)  $y = \frac{4}{3}x + 5$

C)  $y = -5x - \frac{4}{3}$

D)  $y = -\frac{4}{3}x + 5$

Classify each triangle by its sides.

84)

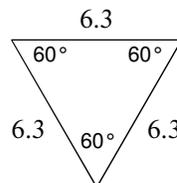


A) isosceles

B) equilateral

C) scalene

85)

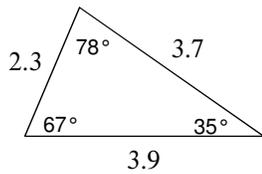


A) scalene

B) isosceles

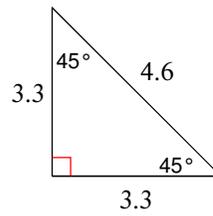
C) equilateral

86)



- A) equilateral      B) scalene  
C) isosceles

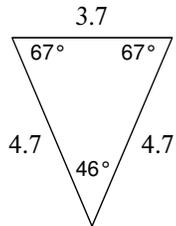
87)



- A) equilateral      B) scalene  
C) isosceles

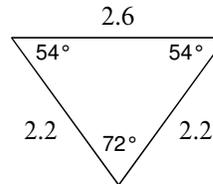
**Classify each triangle by its angles.**

88)



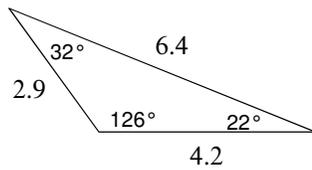
- A) right              B) equiangular  
C) acute             D) obtuse

89)



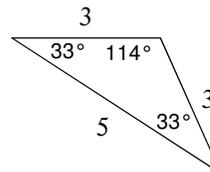
- A) equiangular      B) right  
C) acute              D) obtuse

90)



- A) equiangular      B) right  
C) obtuse            D) acute

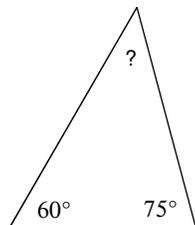
91)



- A) obtuse            B) equiangular  
C) acute              D) right

**Find the measure of each angle indicated.**

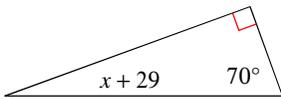
92)



- A)  $35^\circ$               B)  $160^\circ$   
C)  $45^\circ$               D)  $85^\circ$

Solve for  $x$ .

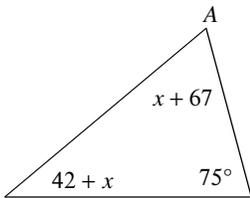
93)



- A)  $-12$
- B)  $8$
- C)  $-9$
- D)  $-4$

Find the measure of angle A.

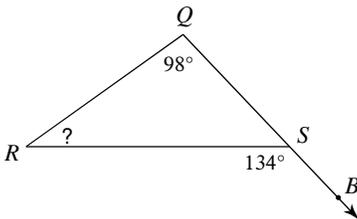
94)



- A)  $40^\circ$
- B)  $65^\circ$
- C)  $20^\circ$
- D)  $55^\circ$

Find the measure of each angle indicated.

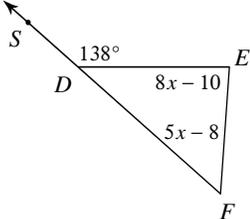
95)



- A)  $30^\circ$
- B)  $28^\circ$
- C)  $46^\circ$
- D)  $36^\circ$

Solve for  $x$ .

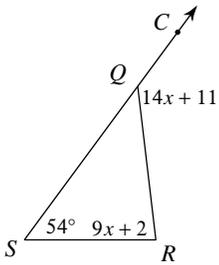
96)



- A)  $10$
- B)  $4$
- C)  $12$
- D)  $9$

Find the measure of the angle indicated.

97) Find  $m\angle CQR$ .



- A)  $118^\circ$       B)  $155^\circ$   
 C)  $137^\circ$       D)  $83^\circ$

Complete each congruence statement by naming the corresponding angle or side.

98)  $\triangle UTS \cong \triangle ESG$

$\angle TSU \cong ?$

- A)  $\angle E$       B)  $\angle G$   
 C)  $\angle ESG$       D)  $\angle S$

99)  $\triangle VWX \cong \triangle HXF$

$\angle V \cong ?$

- A)  $\angle X$       B)  $\angle HXF$   
 C)  $\angle H$       D)  $\angle F$

100)  $\triangle QRS \cong \triangle HGS$

$\angle RSQ \cong ?$

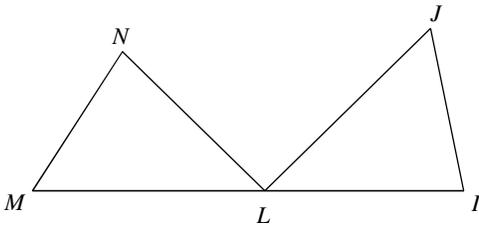
- A)  $\angle G$       B)  $\angle GSH$   
 C)  $\angle S$       D)  $\angle H$

101)  $\triangle QRS \cong \triangle QRV$

$\angle QRS \cong ?$

- A)  $\angle V$       B)  $\angle QRV$   
 C)  $\angle R$       D)  $\angle VQR$

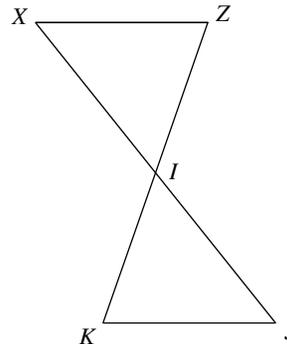
102)  $\triangle MNL \cong \triangle JIL$



$\overline{LM} \cong ?$

- A)  $\overline{LJ}$       B)  $\overline{LJ}$   
 C)  $\overline{JI}$       D)  $\overline{IL}$

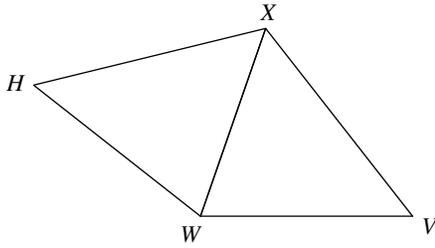
103)  $\triangle IJK \cong \triangle IXZ$



$\overline{JK} \cong ?$

- A)  $\overline{ZI}$       B)  $\overline{XZ}$   
 C)  $\overline{IX}$       D)  $\angle Z$

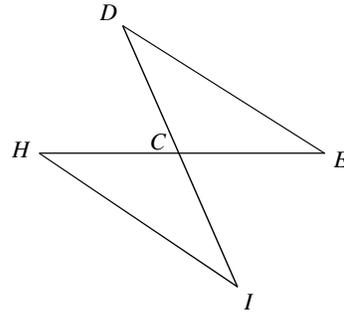
104)  $\triangle WXV \cong \triangle WXH$



$\angle V \cong ?$

- A)  $\angle HWX$       B)  $\angle WXH$   
 C)  $\angle X$           D)  $\angle H$

105)  $\triangle CDE \cong \triangle CHI$

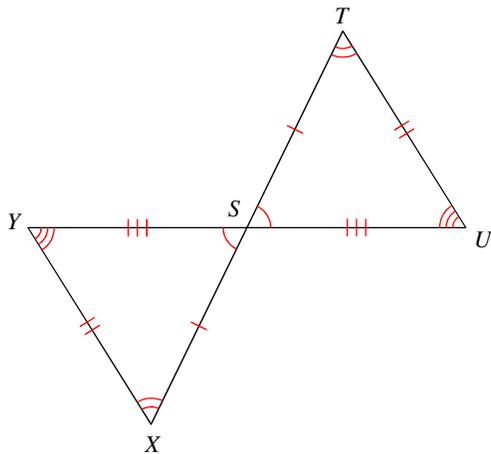


$\overline{DE} \cong ?$

- A)  $\overline{CH}$           B)  $\overline{HI}$   
 C)  $\angle H$           D)  $\overline{IC}$

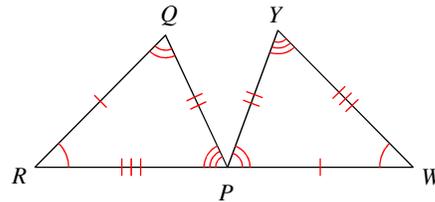
Write a statement that indicates that the triangles in each pair are congruent.

106)



- A)  $\triangle UST \cong \triangle XYS$   
 B)  $\triangle UTS \cong \triangle SXY$   
 C)  $\triangle STU \cong \triangle SXY$   
 D)  $\triangle TUS \cong \triangle YSX$

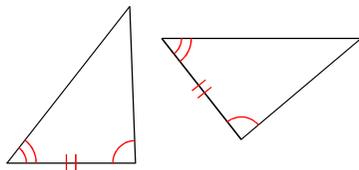
107)



- A)  $\triangle RQP \cong \triangle WPY$   
 B)  $\triangle QRP \cong \triangle WPY$   
 C)  $\triangle PQR \cong \triangle YWP$   
 D)  $\triangle PRQ \cong \triangle WYP$

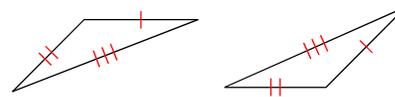
State if the two triangles are congruent. If they are, state how you know.

108)



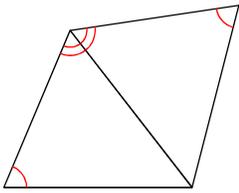
- A) SSS                  B) AAS  
 C) ASA                D) SAS

109)



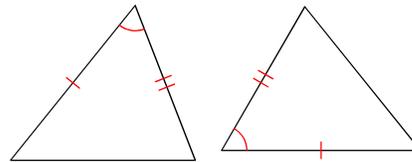
- A) SAS                  B) AAS  
 C) Not congruent      D) SSS

110)



- A) SSS      B) SAS  
C) AAS      D) Not congruent

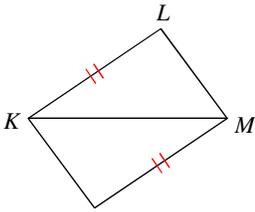
111)



- A) SSS      B) AAS  
C) ASA      D) SAS

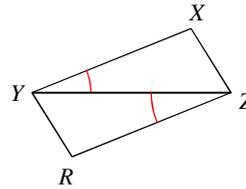
**State what additional information is required in order to know that the triangles are congruent for the reason given.**

112) SSS



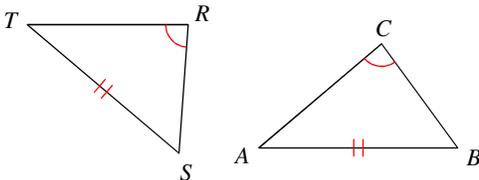
- A)  $\overline{KL} \cong \overline{MQ}$   
B)  $\overline{MK} \cong \overline{KM}$   
C)  $\overline{LM} \cong \overline{QK}$   
D)  $\overline{KL} \cong \overline{MQ}$  or  $\overline{LM} \cong \overline{QK}$

113) ASA



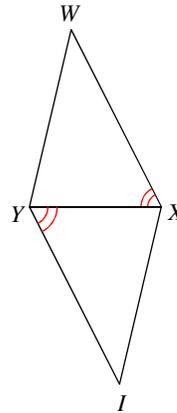
- A)  $\overline{YX} \cong \overline{ZR}$  or  $\overline{XZ} \cong \overline{RY}$   
B)  $\overline{ZY} \cong \overline{YZ}$   
C)  $\overline{YX} \cong \overline{ZR}$   
D)  $\angle XZY \cong \angle RYZ$

114) AAS



- A)  $\overline{ST} \cong \overline{BA}$  or  $\overline{TR} \cong \overline{AC}$   
B)  $\angle T \cong \angle A$   
C)  $\angle S \cong \angle B$  or  $\angle T \cong \angle A$   
D)  $\angle R \cong \angle C$  or  $\angle S \cong \angle B$

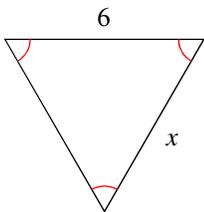
115) SAS



- A)  $\overline{YW} \cong \overline{XI}$   
B)  $\angle WXY \cong \angle IYX$  or  $\angle XYW \cong \angle YXI$   
C)  $\angle WXY \cong \angle IYX$   
D)  $\overline{WX} \cong \overline{IY}$

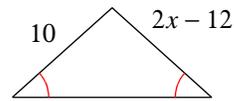
Find the value of  $x$ .

116)



- A) 6      B) 10  
C) 8      D) 7

117)



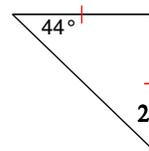
- A) 12      B) 11  
C) -10     D) 9

118)  $m\angle 2 = x + 37$



- A) -11      B) -6  
C) 10       D) 8

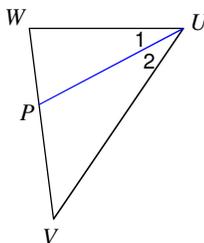
119)  $m\angle 2 = x + 55$



- A) -11      B) 7  
C) 9        D) -7

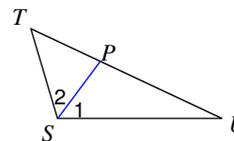
Each figure shows a triangle with one of its angle bisectors.

120)  $m\angle 2 = 28^\circ$ . Find  $m\angle 1$ .



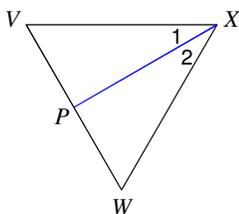
- A)  $14^\circ$       B)  $180^\circ$   
C)  $56^\circ$       D)  $28^\circ$

121) Find  $m\angle UST$  if  $m\angle 2 = 53^\circ$ .



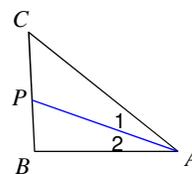
- A)  $53^\circ$       B)  $26.5^\circ$   
C)  $159^\circ$      D)  $106^\circ$

122) Find  $x$  if  $m\angle 2 = 2x + 14$  and  $m\angle 1 = 3x + 6$ .



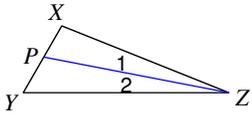
- A) 4      B) 3  
C) 2      D) 8

123) Find  $x$  if  $m\angle 1 = 3x + 7$  and  $m\angle CAB = 9x + 2$ .



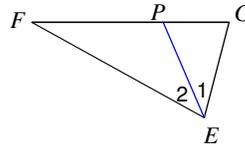
- A) 7      B) 10  
C) 5      D) 4

- 124) Find  $m\angle 2$  if  $m\angle 2 = x + 1$  and  $m\angle XZY = 3x - 8$ .



- A)  $50^\circ$       B)  $11^\circ$   
C)  $74^\circ$       D)  $92^\circ$

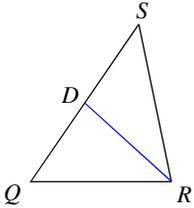
- 125) Find  $m\angle 2$  if  $m\angle 1 = 7x - 4$  and  $m\angle 2 = 6x + 2$ .



- A)  $44^\circ$       B)  $38^\circ$   
C)  $42^\circ$       D)  $95^\circ$

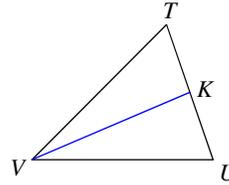
Each figure shows a triangle with one or more of its medians.

- 126) Find  $DQ$  if  $SQ = 7.8$



- A) 1.3      B) 5.85  
C) 1.95      D) 3.9

- 127) Find  $x$  if  $KT = 4x$  and  $KU = 5x - 2$



- A) 2      B) 12  
C) 7.9      D) 1.3

State if the three numbers can be the measures of the sides of a triangle.

- 128) 9, 13, 12

- A) No      B) Yes

- 129) 2, 6, 8

- A) Yes      B) No

Two sides of a triangle have the following measures. Find the range of possible measures for the third side.

- 130) 11, 8

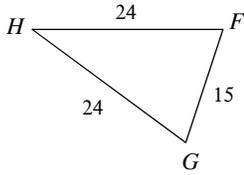
- A)  $3 < x < 18$       B)  $4 < x < 15$   
C)  $5 < x < 18$       D)  $3 < x < 19$

- 131) 7, 10

- A)  $7 < x < 17$       B)  $3 < x < 17$   
C)  $3 < x < 13$       D)  $4 < x < 17$

Order the angles in each triangle from smallest to largest.

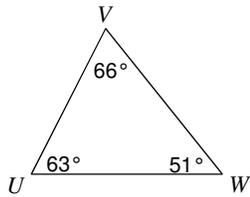
132)



- A)  $\angle H$ ;  $\angle F$  and  $\angle G$
- B)  $\angle F$  and  $\angle G$ ;  $\angle H$
- C)  $\angle G$ ,  $\angle F$ ,  $\angle H$
- D)  $\angle F$  and  $\angle H$ ;  $\angle G$

Order the sides of each triangle from shortest to longest.

133)



- A)  $\overline{UV}$ ,  $\overline{UW}$ ,  $\overline{VW}$
- B)  $\overline{UW}$ ,  $\overline{UV}$ ,  $\overline{VW}$
- C)  $\overline{UV}$ ,  $\overline{VW}$ ,  $\overline{UW}$
- D)  $\overline{UW}$ ,  $\overline{VW}$ ,  $\overline{UV}$

Given the following conditional statement, identify the hypothesis.

134) If today is Wednesday then tomorrow is Thursday.

- A) Tomorrow is Thursday
- B) Today is Wednesday

135) If it does not snow then we will not have a white Christmas.

- A) It does not snow
- B) We will not have a white Christmas

136) If I do not drink water then I will be thirsty.

- A) I do not drink water
- B) I will be thirsty

**Given the following conditional statement; identify the converse, the inverse, and the contrapositive.**

137) If it is cold outside then I will wear a jacket.

If I will wear a jacket then it is cold outside.

- A) converse
- B) inverse
- C) contrapositive

138) If I pass my geometry final then I am happy.

If I did not pass my geometry final then I am not happy.

- A) converse
- B) inverse
- C) contrapositive

139) If tomorrow is Saturday then I do not go to school.

If I go to school then tomorrow is not Saturday.

- A) converse
- B) inverse
- C) contrapositive