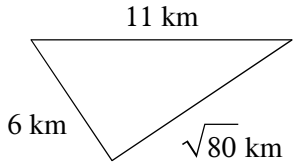
0520 Geometry Name_____

Pythagorean Theorem

Date_____ Period____

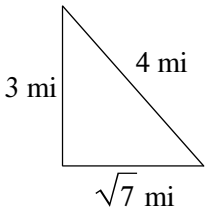
State if each triangle is a right triangle.

1)



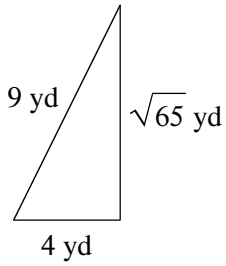
A) No B) Yes

2)



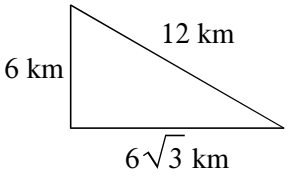
A) No B) Yes

3)



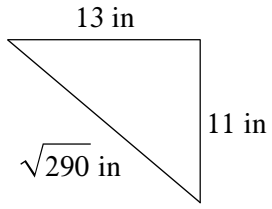
A) Yes B) No

4)



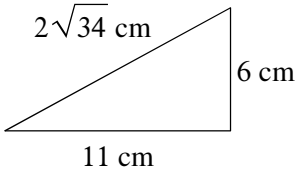
A) Yes B) No

5)



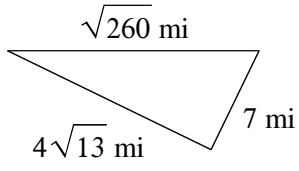
A) Yes B) No

6)



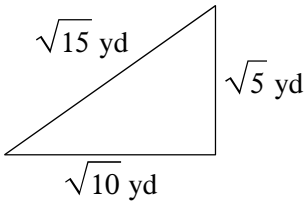
A) Yes B) No

7)



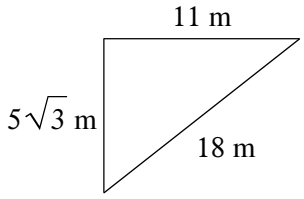
A) No B) Yes

8)



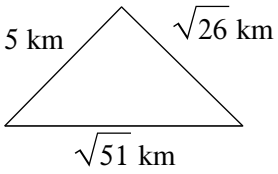
A) No B) Yes

9)



A) No B) Yes

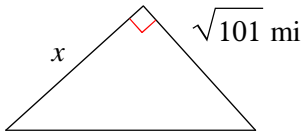
10)



A) No B) Yes

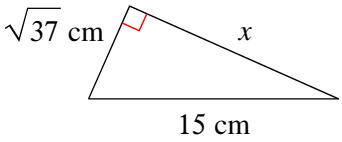
Find the missing side of each triangle. Leave your answers in simplest radical form.

11)



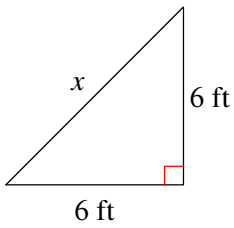
A) $\sqrt{326}$ mi B) $\sqrt{349}$ mi
C) $2\sqrt{31}$ mi D) $\sqrt{23}$ mi

12)



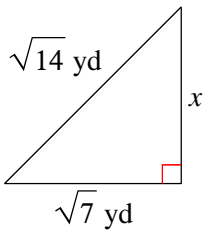
A) $\sqrt{262}$ cm B) $\sqrt{413}$ cm
C) $\sqrt{151}$ cm D) $2\sqrt{47}$ cm

13)



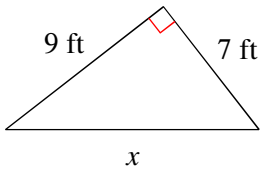
A) 0 ft B) $6\sqrt{2}$ ft
C) $6\sqrt{3}$ ft D) $\sqrt{73}$ ft

14)



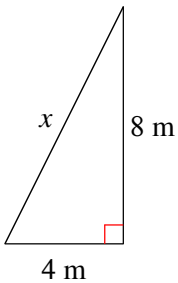
A) $\sqrt{7}$ yd B) 2 yd
C) 0 yd D) $\sqrt{21}$ yd

15)



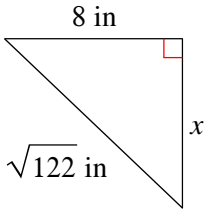
A) $\sqrt{130}$ ft B) $\sqrt{179}$ ft
C) $\sqrt{211}$ ft D) $4\sqrt{2}$ ft

16)



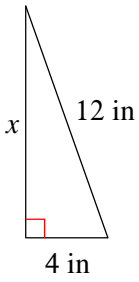
A) $4\sqrt{3}$ m B) 12 m
C) $4\sqrt{5}$ m D) $4\sqrt{6}$ m

17)



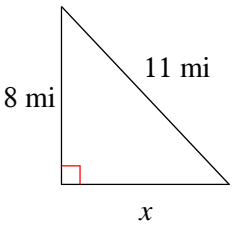
A) $6\sqrt{5}$ in B) $\sqrt{6}$ in
C) $\sqrt{58}$ in D) $\sqrt{186}$ in

18)



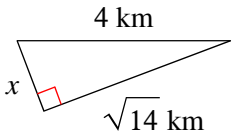
A) $4\sqrt{17}$ in B) $8\sqrt{2}$ in
C) $4\sqrt{7}$ in D) $4\sqrt{10}$ in

19)



A) $\sqrt{57}$ mi B) $\sqrt{178}$ mi
C) $\sqrt{7}$ mi D) $\sqrt{185}$ mi

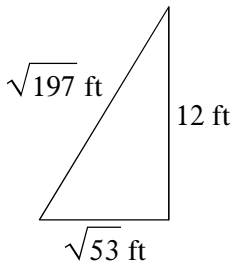
20)



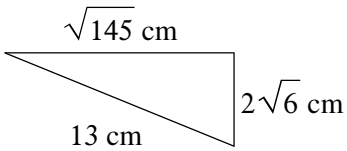
A) $\sqrt{30}$ km B) $2\sqrt{3}$ km
C) $\sqrt{2}$ km D) $3\sqrt{2}$ km

State if each triangle is acute, obtuse, or right.

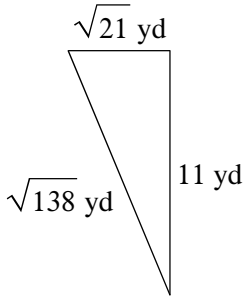
21)



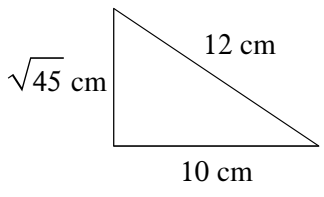
22)



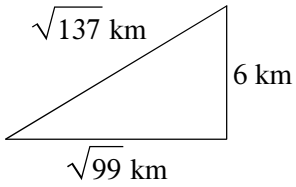
23)



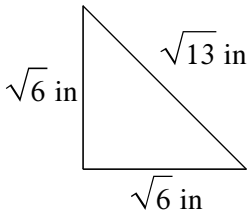
24)



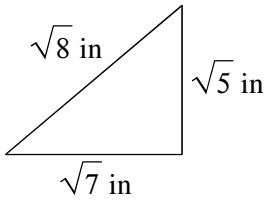
25)



26)



27)



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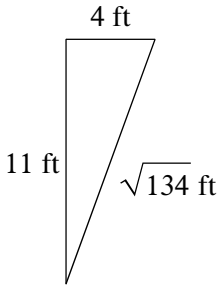

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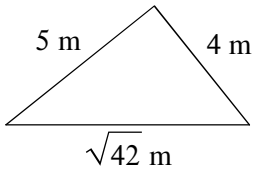

30)