

Pythagoras Review Day 2

Date _____ Period _____

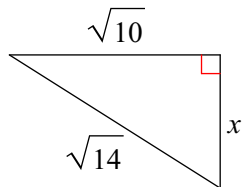
State if the three side lengths form a right triangle

1) 45 ft, 34 ft, 27 ft

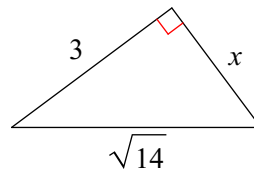
2) 34 yd, 78 yd, 72 yd

3) $\sqrt{6}$, 3, $\sqrt{20}$ 4) $\sqrt{13}$, 2, $\sqrt{17}$ **Find the missing side of each triangle. Give both the exact and rounded answer.**

5)



6)



Find the missing side of each right triangle. Side c is the hypotenuse. Sides a and b are the legs. Round your answers to the nearest tenth if necessary.

7) $a = 5.3$, $c = 13.3$

8) $a = 4.5$, $c = 15.2$

Find the missing side of each right triangle. Side c is the hypotenuse. Sides a and b are the legs. Leave your answers in simplest radical form.

9) $a = \sqrt{5}$, $b = 2$

10) $b = 6$, $c = 11$

11) Three people are sitting on a bus. Colin is directly behind Zane and directly left of Vondra. If Zane and Colin are 15 feet apart, and Vondra and Zane are 17 feet apart, what is the distance between Colin and Vondra?

12) Carey is decorating a ballroom ceiling with garland. The width of the rectangular ceiling is 28 meters and the diagonal distance from one corner to the opposite corner is 35 meters. How much garland will Carey need for the length of the ceiling?

Answers to Pythagoras Review Day 2 (ID: 1)

- | | | | |
|---|--------------------------|--|---------|
| 1) Not a right triangle | 2) Not a right triangle. | 3) No | 4) Yes |
| 5) 2 | 6) $\sqrt{5}$ | 7) 12.2 | 8) 14.5 |
| 9) 3 | 10) $\sqrt{85}$ | 11) Colin and Vondra are 8 feet apart. | |
| 12) Carey will need 21 meters of garland for the length of the ceiling. | | | |