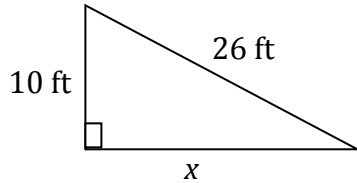


1. Round the value $\sqrt{875}$ to the nearest tenth.

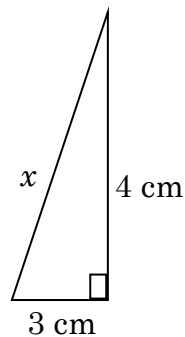
- A 29
- B 29.6
- C 29.5
- D 30

2. Use the Pythagorean Theorem to find the missing measure.



- A 16 ft
- B 576 ft
- C 25 ft
- D 24 ft

3. Which equation could be used to find the length of the missing side?

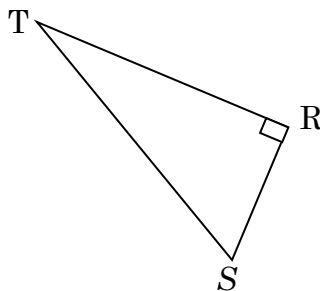


- A $3^2 - x^2 = 4^2$
- B $3^2 + 4^2 = x^2$
- C $4^2 + x^2 = 3^2$
- D $4^2 = x^2 + 3^2$

4. Which statement best describes the hypotenuse of a right triangle?

- A The shortest side of a right triangle.
- B The point where two sides intersect.
- C The longest side of a right triangle.
- D The result when two or more numbers are added.

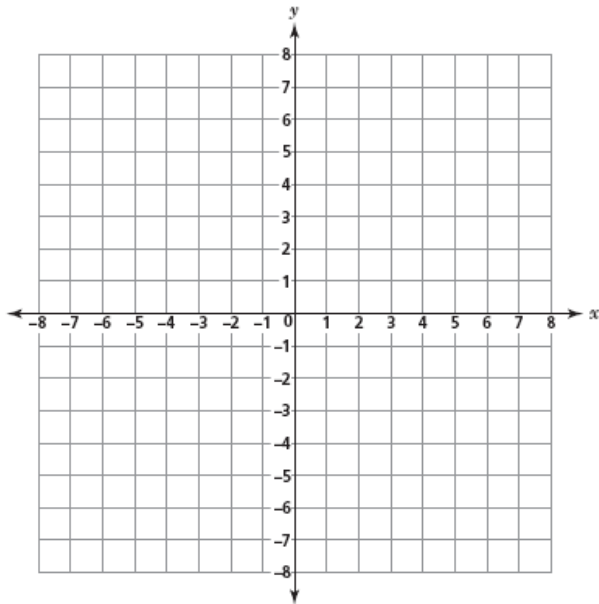
5. Right triangle RST is shown below. Which side represents the hypotenuse?



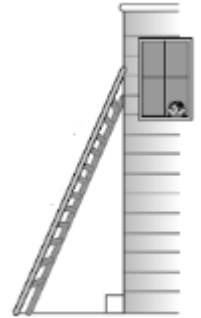
- A \overline{RS}
- B \overline{RT}
- C \overline{ST}
- D \overline{SR}

6. The coordinates of $\triangle CAT$ are shown below. Plot the triangle and show its image after a reflection over the x -axis.

C (-4, 1); A (-4, 3); T (6, 1)



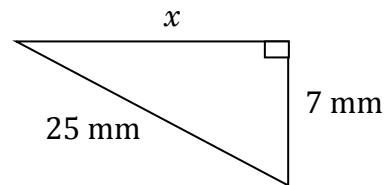
7. A 15-foot ladder is leaning against a wall. The ladder is 6 ft from the base of the wall. About how far above the ground does the ladder touch the wall? Round your answer to the nearest tenth. Show your work.



Answer _____ feet

8. Two legs of a right triangle are 20 cm and 21 cm. What is the length of the hypotenuse? Show your work.

9. Kaylee solved for the missing side in the right triangle below. Her work is shown.



$$\begin{aligned} a^2 + b^2 &= c^2 \\ 7^2 + 25^2 &= c^2 \\ 49 + 625 &= c^2 \\ 674 &= c^2 \\ \sqrt{674} &= \sqrt{c^2} \\ 26 &= c \end{aligned}$$

Is she correct? Explain.

Answer _____ cm