

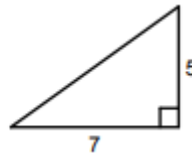
Final Review The Pythagorean Theorem

$$a^2 + b^2 = c^2$$

1. Find the missing side of each **right triangle**. With or without a picture. Round to the *nearest 10th* if necessary.

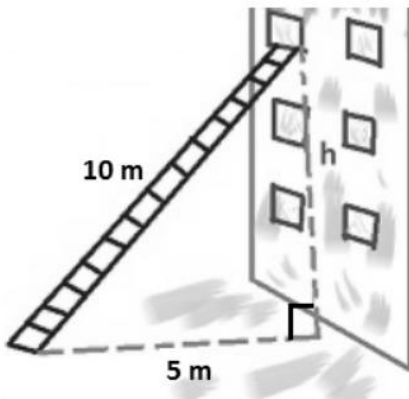


$$a = 2, b = ?, c = 3$$

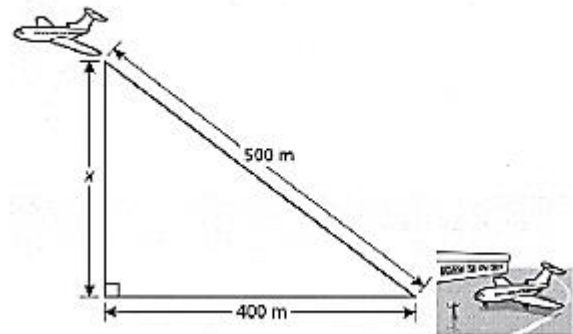


$$a = 10, b = 12, c = ?$$

2. Find h . Round to the *nearest 10th* if necessary.



According to the diagram, what is the altitude of the airplane?



Note: Figure is not drawn to scale.

4. Find the length of a rectangle that has a diagonal of 25 feet and a width of 15 feet.

5. How far from the base of the house do you need to place a 15-foot ladder so that it exactly reaches the top of a 12-foot tall wall?