

Name: _____

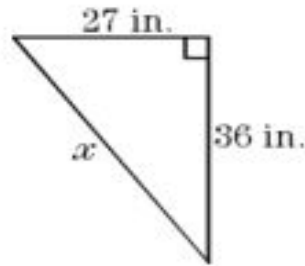
Homework – Monday (March 4, 2019)

Solve the following problems **without a calculator**. You **MUST** show your work. **NO WORK = NO CREDIT**.

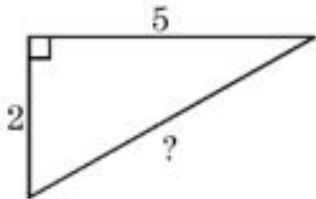
1. Given two side lengths of a right triangle, solve for the missing length.

$$a = 16, b = 30, c = ?$$

2. What is x ?



3. What is the length of the unmeasured side of this triangle?

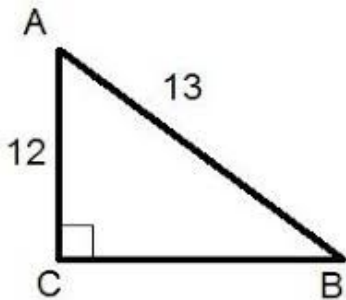


4. Use the Pythagorean Theorem to determine the hypotenuse of a right triangle whose legs are 10 feet and 24 feet, respectively.

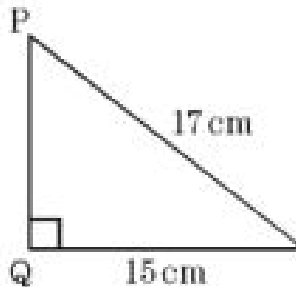
Homework- Tuesday (March 5, 2019)

Solve the following problems **without a calculator**. You **MUST** show your work. **NO WORK = NO CREDIT**.

1. Find the missing side. Round to the nearest tenth.

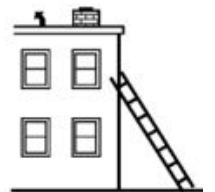


2. What is the length of PQ in the right triangle shown?



3. The length of a hypotenuse of a right triangle is 20 cm and the length of one leg is 12 cm. What is the length of the other leg?

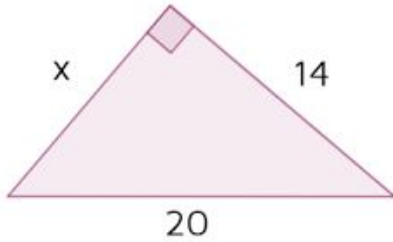
4. A ladder is leaning against the side of a building. The base of the ladder is 6 feet away from the building and the top of the ladder touches the building at a point 8 feet above ground. How long is the ladder?



Homework - Wednesday (March 6, 2019)

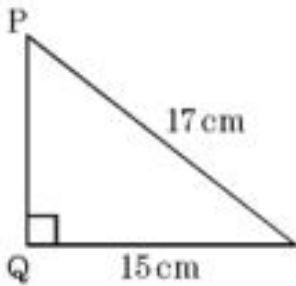
Solve the following problems **without a calculator**. You **MUST** show your work. **NO WORK = NO CREDIT**.

1. Find the missing side. Round to the nearest tenth.



2. If a triangle has side lengths 15, 20, and 25, is it a right triangle?

3. What is the length of PQ in the right triangle shown?



4. The diagonal of a rectangular picture is 18 mm. If the width of the picture is 15 mm, what is the length? Round to the nearest tenth.

Homework - Thursday (March 7, 2019)

Solve the following problems **without a calculator**. You **MUST** show your work. **NO WORK = NO CREDIT**.

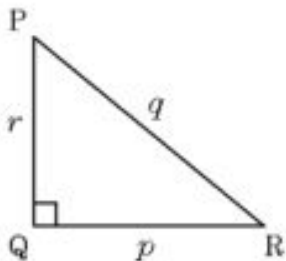
1. Which of the following measurements could be the lengths of the sides of a right triangle? Show your work.

- a) 1, 2, 3
- b) 1, 4, 5
- c) 3, 4, 5

2. Given two side lengths of a right triangle, solve for the missing length.

$$a = ?, b = 40, c = 41$$

3. In $\triangle PQR$, $p = \sqrt{6}$ and $q = \sqrt{12}$. Calculate the length of side r . Round to the nearest tenth.



4. If a triangle has side lengths $\sqrt{3}$, $\sqrt{6}$, and 3, is it a right triangle?

