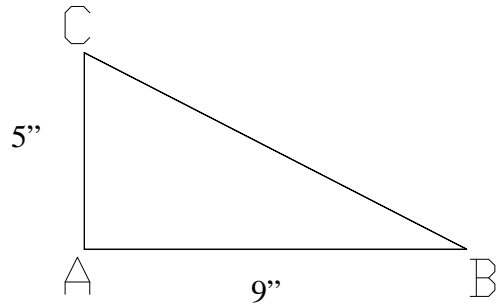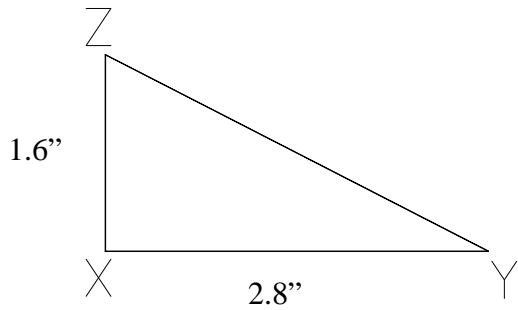# Practicing Pythagoras

Draw diagrams to help you answer all of these questions. Give answers to 2 decimal places.

Solve for the missing side using the Pythagorean Theorem:
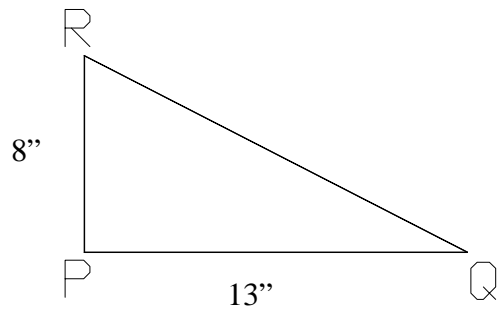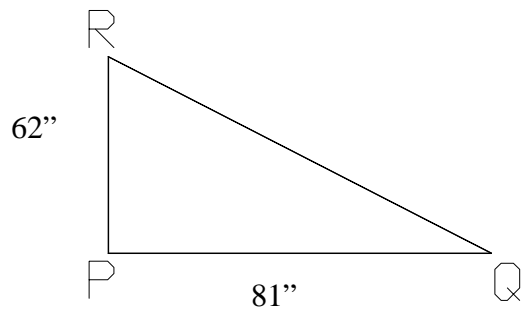
1.

C

5"

A   9"   B

2.

Z

1.6"

X   2.8"   Y

3.

R

8"

P   13"   Q

4.

R

62"

P   81"   Q

5. In a triangle ABC, angle A=90 degrees, line AB= 11.3", line BC= 15.2", find the length of line AC.

6. In a triangle ABC, angle A=90 degrees, line AB= 14", line BC= 21", find the length of line AC.

7. In a triangle ABC, angle A=90 degrees, line AB= 116.3", line BC= 98", find the length of line AC.

8. In a triangle ABC, angle A=90 degrees, line AB= 25", line BC= 5", find the length of line AC.

9. In a triangle ABC, angle A=90 degrees, line AB= 52.6", line BC= 18.8", find the length of line AC.

10. A ship sails 32 nautical miles due north, then sales 22 nautical miles due east. How far is the ship from its starting point? (Hint: draw a triangle and calculate the hypotenuse length)