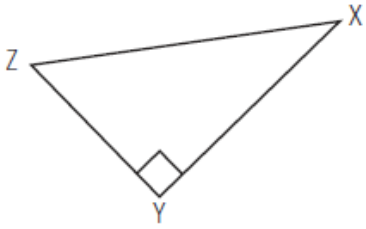
Mr. Gunstenson
WAM 10

Unit 3 - WA10.6 - Pythagorean Theorem Practice Questions #1

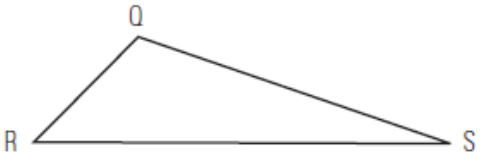
Be sure to input your answers here to receive credit: https://bit.ly/3Fijw3Q

1. Label each side of the triangles below using a single lower case letter corresponding to the opposite vertex:

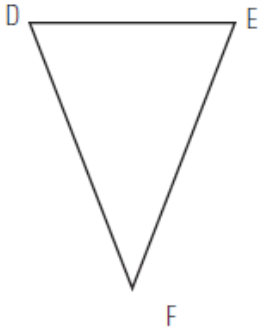
a)



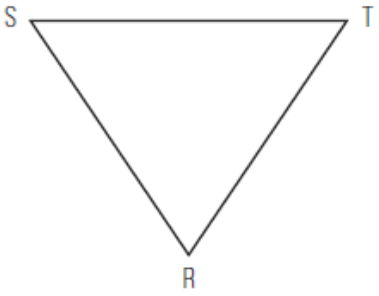
b)



c)

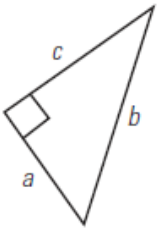


d)

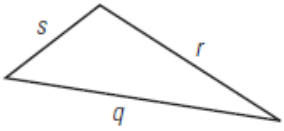


2. Label each vertex of the triangles below using a single upper case letter corresponding to the opposite side.

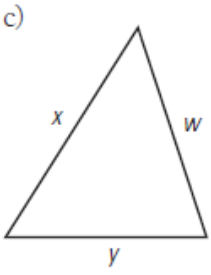
a)



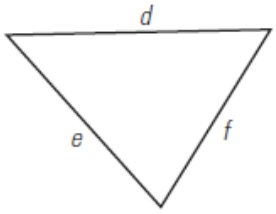
b)



c)



d)



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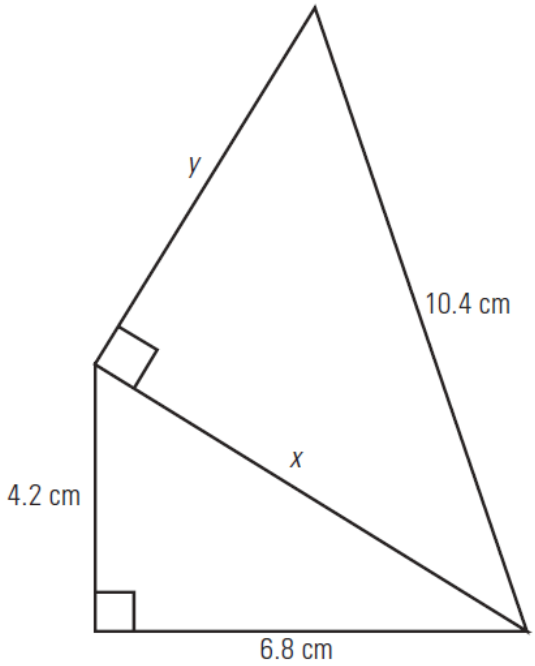
3. Calculate the values of x and y:



4. A 40-foot ladder reaches 38 feet up the side of a house. How far from the base of the house is the foot of the ladder?
5. A field is 120 m by 180 m. How much shorter is your route if you walk diagonally across the field rather than walking around the edge to the opposite corner?
6. A stairway rises 6 feet 4 inches over a horizontal distance of 8 feet 6 inches. What is the diagonal length of the stairway?
7. A 28-metre long guy wire is attached to a point 24 m up the side of a tower. How far from the base of the tower is the guy wire attached?
8. The construction plans for a ramp show that it rises 3.5 metres over a horizontal distance of 10.5 metres. How long will the ramp surface be?
9. The advertised size of a TV screen is the distance between opposite corners. Sally bought a 52-inch TV. If the height of the TV is 32 inches, how wide is it?
10. A boat sailed due north at a rate of 12 km/h for 3 hours, then due east at a rate of 18 km/h for 2 hours. How far was it from its starting point, measuring the shortest distance?