Geometry   Name _____
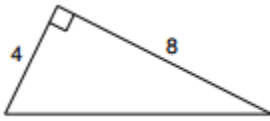
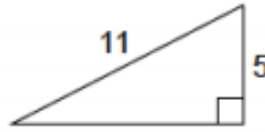8.2 Pythagorean Theorem   Date _____   Hour _____

Find the missing side.
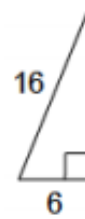
1)

2)

3)

Would these lengths form a right triangle?
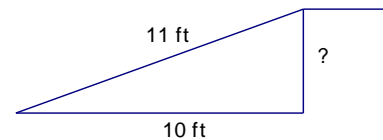
4) 6, 8, 10   5) 7, 28, 29   6) $\frac{1}{3}, \frac{2\sqrt{3}}{3}, 1$

7) Determine whether $\triangle ABC$ is a right triangle for the given vertices. Show work.   A(2, 7)   B(3, 6)   C(-4, -1)
   (distance formula and check w/ Pythagorean Theorem)

8) The bottom end of a ramp at a warehouse is 10 feet from the base of the main dock and is 11 feet long.
   How high is the dock?

9) To support a flag pole, a 50-foot tether is tied to the pole at a point 40 feet above ground. The tether is pulled
taut and tied to an anchor in the ground. How far away from the base of the pole is the anchor?