

6. For the triangle shown below, the Pythagorean Theorem states that \_\_\_\_\_



- a.  $a^2 + b^2 = c^2$
- b.  $a = f + g$
- c.  $f^2 - g^2 = a^2$
- d.  $f^2 + g^2 = h^2$



a.) Name 3 points that are collinear: C, B, D

b.) Name 3 points that are coplanar: A, B, E

c.) Name a pair of opposite rays: BC, BD

8. Draw  $\overline{AB}$ ,  $\overline{CD}$ , and  $\overline{PQ}$ .



9. If  $AB = 11$  and  $AC = 22$ , find the length of  $BC$ .



10. If  $m\angle AOB = 27^\circ$  and  $m\angle AOC = 49^\circ$ , then what is the measure of  $\angle BOC$ ?



11. Name this angle in three different ways.



12. Solve for x.



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

$$22^2 + x^2 = 24^2$$

$$b \quad 484 + x^2 = 576$$

$$-484 \quad -484$$

$$\sqrt{x^2} = \sqrt{92}$$

$$x = \sqrt{92} \approx 9.59$$

9) Find all missing angles.



(page 9)

Solve for x.



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

$$9^2 + 8^2 = c^2$$

$$81 + 64 = c^2$$

$$\sqrt{145} = \sqrt{c^2}$$

$$c = \sqrt{145} \approx 12.04$$

Solve for x.



$\triangle$  in  $\triangle$

$$5x + 3x + 4x - 15 = 180$$

$$12x - 15 = 180$$

$$+15 \quad +15$$

$$12x = 195$$

$$x = 16.25$$

# 2nd Semester Geometry Review Key

**LM Reder**



## 2nd Semester Geometry Review Key:

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