

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



$$\begin{aligned} a. \quad & x^2 + y^2 = z^2 \\ b. \quad & x = y + z \\ c. \quad & y^2 = z^2 - x^2 \\ d. \quad & x^2 = y^2 - z^2 \end{aligned}$$

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



10. If  $m\angle AOB = 27^\circ$  and  $m\angle AOC = 45^\circ$ , then what is the measure of  $\angle BOC$ ?



## 1.2. Solve for x.



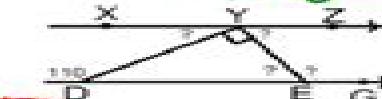
$$\begin{aligned} a^2 + b^2 &= c^2 \\ 22^2 + x^2 &= 24^2 \\ 484 + x^2 &= 576 \\ -484 & \quad \quad \quad -484 \\ \sqrt{x^2} &= \sqrt{92} \\ x &= \sqrt{92} \approx 9.5 \end{aligned}$$

## Software



$x^2 + c^2 = a^2 + b^2$  Solve  
 $c = \sqrt{145} = 12.09$

Solve for  $x$ :



$$\begin{aligned}
 & \text{Let } m \angle \\
 -3x + 4x - 15 &= 180 \\
 12x - 15 &= 180 \\
 +15 & \quad +15 \\
 12x &= 195 \\
 x &= 16.25
 \end{aligned}$$

1.1. Name this angle in three different ways.



2) Find all missing angles.

(page 9)

# 2nd Semester Geometry Review Key

**North Park College and Theological  
Seminary**

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