

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. $a^2 = f^2 + g^2$

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



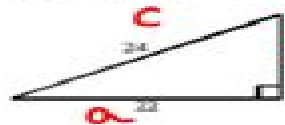
$BC = 11$

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



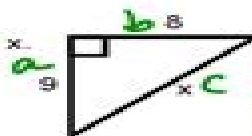
$49 - 22 = 27$

12. Solve for x.



$$\begin{aligned} a^2 + b^2 &= c^2 \\ 22^2 + x^2 &= 24^2 \\ 484 + x^2 &= 576 \\ -484 & -484 \\ x^2 &= 92 \\ x &= \sqrt{92} \approx 9.59 \end{aligned}$$

- Solve for x.



$$\begin{aligned} a^2 + b^2 &= c^2 \\ 9^2 + 8^2 &= c^2 \\ 81 + 64 &= c^2 \\ \sqrt{145} &= \sqrt{c^2} \\ c &= \sqrt{145} \approx 12.04 \end{aligned}$$

- Solve for x.



$$\begin{aligned} 5x + 3x + 4x - 15 &= 180 \\ 12x - 15 &= 180 \\ +15 & +15 \\ 12x &= 195 \\ x &= 16.25 \end{aligned}$$



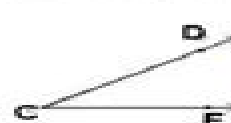
- a.) Name 3 points that are collinear: C, B, D

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

- c.) Name a pair of opposite rays: \overrightarrow{BC} , \overrightarrow{BD}

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

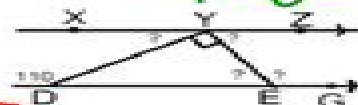
11. Name this angle in three different ways.



$\angle C$
 $\angle DCE$
 $\angle ECD$

- 9) Find all missing angles.

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Camilla Rothe



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