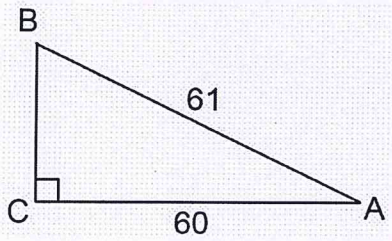
Bellwork Geo Wednesday, March 18, 2020

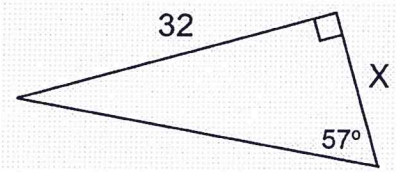
1. Write $\tan B$ as a ratio.

$\tan B =$



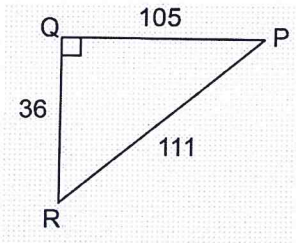
2. Find the value of x to the nearest hundredth.

$x =$



3. Find the measure of $\angle P$ to the nearest hundredth of a degree.

$\angle P =$

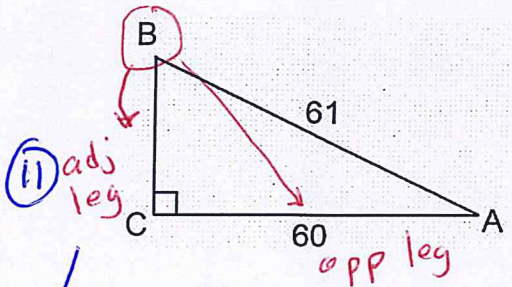


Bellwork Geo Wednesday, March 18, 2020

ANSWERS

1. Write $\tan B$ as a ratio.

$\tan B = \frac{60}{11}$



$\text{Tan}\,B = \frac{\text{opp leg}}{\text{adj leg}}$

$\text{Tan}\,B = \frac{60}{11}$

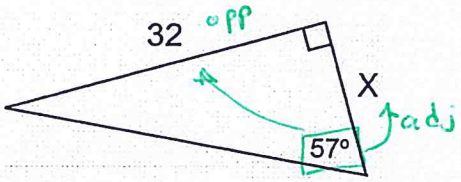
adj leg: $61^2 = 60^2 + x^2$

$x^2 = 61^2 - 60^2$

$x = \sqrt{61^2 - 60^2} = 11$

2. Find the value of x to the nearest hundredth.

$x = 20.78$



$\text{Tan}\,\theta = \frac{\text{opp}}{\text{adj}}$

$\text{Tan}\,57^\circ = \frac{32}{x}$

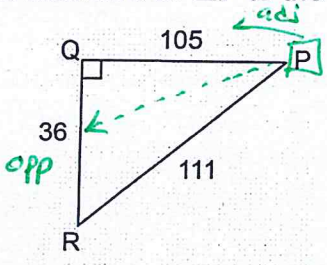
$\frac{\text{Tan}\,57^\circ}{1} = \frac{32}{x}$

$x = (32)(1) \div \text{Tan}\,57^\circ$

$x = \frac{32}{\text{Tan}\,57^\circ} = 20.78$

3. Find the measure of $\angle P$ to the nearest hundredth of a degree.

$\angle P = 18.92^\circ$



$\text{Tan}\,P = \frac{\text{opp}}{\text{adj}} = \frac{36}{105}$

$\angle P = \text{Tan}^{-1}\left(\frac{36}{105}\right)$

$\angle P = 18.92^\circ$