20 minute review, then we'll take our Ch 7 & 8 Test!

Dec 10-3:22 PM

Sum of the interior angles in a polygon:

$180(n-2)$

n is # of sides

One interior angle in a regular polygon:

$\frac{180(n-2)}{n}$

(7) $\frac{180(n-2)}{n} = 157.5 \cdot n$

$180(n-2) = 157.5n$

$180n - 360 = 157.5n$

$-157.5n \quad +360 \quad -157.5n \quad +360$

$\frac{22.5n}{22.5} = \frac{360}{22.5}$

$n = 16$ sided polygon or 16-gon

(6) 5-sided

9) Sum: $180(5-2) = 180(3) = 540°$

b) $2x + 7x - 12 + 4x + 4x + 2 + 5x = 540$

$22x - 10 = 540$

$+10 \quad +10$

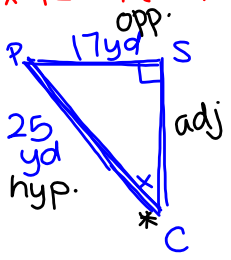
$\frac{22x}{22} = \frac{550}{22}$

$x = 25$

c) $\angle PTS$: $5x = 5(25) = 125°$

d) $\angle RQP$: $7x - 12 = 7(25) - 12 = 163°$

(24)



$\sin x = \frac{17}{25}$

$\sin^{-1}(\sin x) = \sin^{-1}\left(\frac{17}{25}\right)$

$x = \sin^{-1}\left(\frac{17}{25}\right)$

$x = 42.8°$

(21)

$x \cdot \tan 72 = \frac{12}{x} \cdot x$

$\frac{x \tan 72}{\tan 72} = \frac{12}{\tan 72}$

$x = \frac{12}{\tan 72}$

$x \approx 3.9$

Chapter 7 & 8 Test

1a & 2a, ratio means sin, cos, or tan

Dec 15-8:01 AM