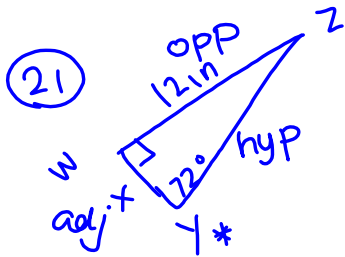


**20 minute review, then we'll
take our Ch 7 & 8 Test!**

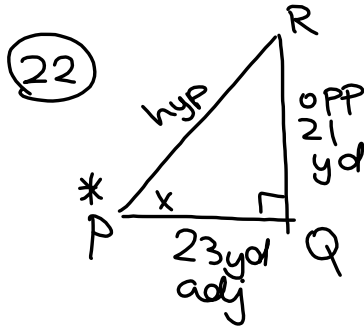


$$x \cdot \tan 72 = \frac{12}{x} \cdot x$$

$$x \cdot \tan 72 = 12$$

$$\frac{3.08x}{3.08} = \frac{12}{3.08}$$

$$x = 3.9 \text{ in}$$



$$\tan x = \frac{21}{23}$$

$$\tan^{-1}(\tan x) = \tan^{-1}\left(\frac{21}{23}\right)$$

$$x = \tan^{-1}\left(\frac{21}{23}\right)$$

$$x = 42.4^\circ$$

(5) $135 + 146 + 142 + 113 + 161 + 99 + 128 = 924$
 sum: $180(8-2) = 180(6) = 1080$

$$\rightarrow 1080 - 924 = 156^\circ$$

Sum of Interior \angle s of a Polygon:
 $180(n-2)$ $n = \#$ of sides

One Interior \angle in a regular polygon:
 $\frac{180(n-2)}{n}$ $n = \#$ of sides

Exterior angles in a polygon add up to 360° .

(6) a) 5 sides, sum: $180(5-2) = 180(3) = 540$

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

c) \angle PTS: $22x - 10 = 540$
 $5x = 5(25) = 125$

d) \angle RQP: $7x - 12 =$

$$7(25) - 12 = 163^\circ$$

$$x = 25$$

Chapter 7 & 8 Test

1a & 2a answer sine, cosine, or tangent