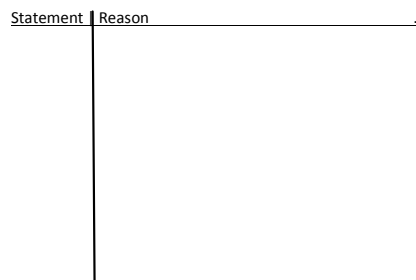
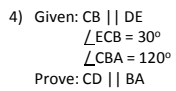
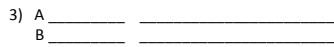
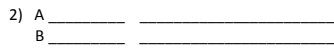


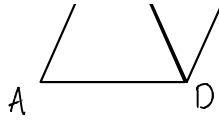
October 6, 2016 7:53 PM

1) A _____
B _____
C _____
D _____
E _____
F _____



-

(All have the same angles)



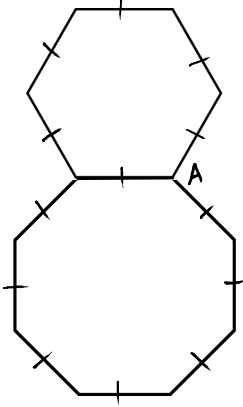
Statement	Reason

Polygons

6) A Polygon has 11 Sides. What is the Sum of all the interior angles?

7) A Regular Polygon has an exterior angle of 5° . How many sides does it have

8) Find angle A

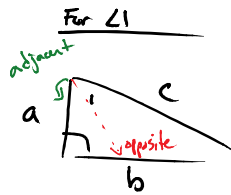


Trig. Review

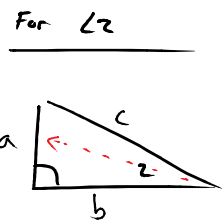
Solving Right (90°) Triangles



- one angle must be 90°
- we name our sides base on which angle we are using.



Side a: adjacent
Side b: Opposite
Side c: Hypotenuse (longest Side)



Side a: Opposite
Side b: adjacent
Side c: Hypotenuse (longest Side)

$$\frac{O}{H}$$

$$\frac{A}{H}$$

$$\frac{O}{A}$$

$$\sin \theta = \frac{\text{Opposite}}{\text{Hypotenuse}}$$

$$\cos \theta = \frac{\text{Adjacent}}{\text{Hypotenuse}}$$

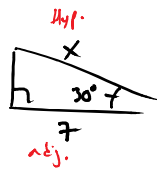
$$\tan \theta = \frac{\text{Opposite}}{\text{adjacent}}$$

Ex:

Hyf.

Solve for X:

Ex:



Solve for x:

$$\cos \theta = \frac{\text{adj.}}{\text{Hyp.}}$$

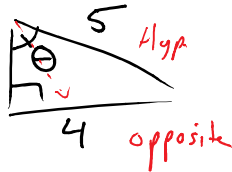
$$\cos 30 = \frac{7}{x}$$

$$\frac{x \cos 30}{\cos 30} = \frac{(7)(1)}{\cos 30}$$

$$x = \frac{7}{\cos 30}$$

$$\underline{\underline{x = 8.1}}$$

Ex:



$$\sin \theta = \frac{\text{Opp}}{\text{Hyp.}}$$

$$\sin \theta = \frac{4}{5}$$

$$\sin \theta = 0.8$$

$$\sin^{-1}(\sin \theta) = \sin^{-1}(0.8)$$

$$\theta = \sin^{-1}(0.8)$$

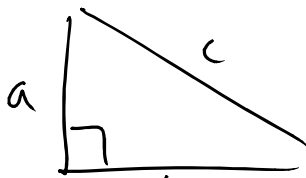
$$\theta = 53^\circ$$

$$\boxed{2^{\wedge}2} \quad \boxed{\sin} \quad 0.8 \quad \boxed{=}$$

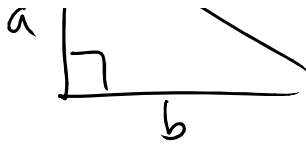
or
 $\boxed{\text{Shift}}$

Pythagoras Theorem

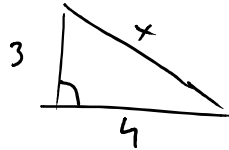
For Right angle triangles where $\star C = \text{Hypotenuse} \star$



$$a^2 + b^2 = c^2$$



Ex:



Find x:

$$3^2 + 4^2 = c^2$$

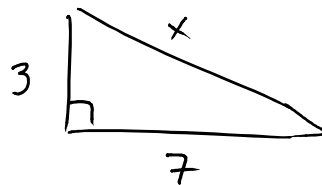
$$9 + 16 = c^2$$

$$25 = c^2$$

$$\sqrt{25} = \sqrt{c^2}$$

$$5 = c$$

Ex:



Find x:

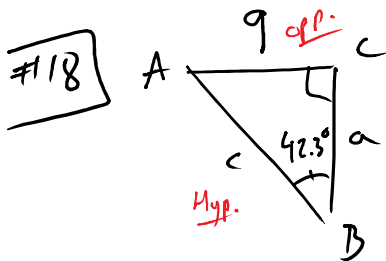
$$7^2 + 3^2 = x^2$$

$$49 + 9 = x^2$$

$$58 = x^2$$

$$\sqrt{58} = \sqrt{x^2}$$

$$\underline{\underline{7.6 = x}}$$



$$\begin{array}{rcl} \angle A + 42.3^\circ + 90^\circ & = & 180^\circ \\ -42.3 & -90 & -42.3 \\ \hline & & -10 \end{array}$$

Sum of $\angle$'s in Δ

$$\underline{\underline{\angle A = 47.7^\circ}}$$

Find c

$$\sin \theta = \frac{\text{opp}}{\text{Hyp}}$$

$$\sin 42.3 = \frac{9}{\text{Hyp}}$$

$$\text{Hyp} = \frac{9}{\sin 42.3}$$

$$\underline{\underline{\text{Hyp} = 13.4}}$$

Find a

$$a^2 + 9^2 = c^2$$

$$a^2 + 81 = 13.4^2$$

$$a^2 + 81 = 179$$

$$-81 \quad -81$$

$$\sqrt{a^2} = \sqrt{98}$$

$$\underline{\underline{a = 9.9}}$$