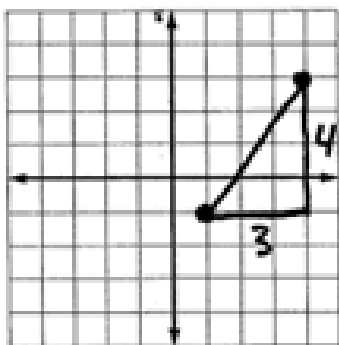


Get your homework out and have it ready to check. Test on ~~Friday!~~
 Thurs.

Classwork - Test Review Day 1

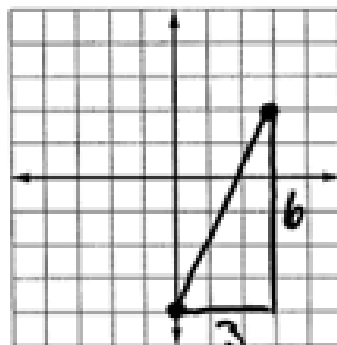
Graph each pair of ordered pairs. Then find the distance between the points. Round to the nearest tenth if necessary.

1. (4, 3), (1, -1)



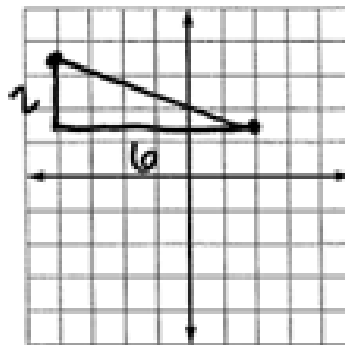
$$\begin{aligned} 3^2 + 4^2 &= c^2 \\ 9 + 16 &= c^2 \\ \sqrt{25} &= \sqrt{c^2} \\ \mathbf{5 \text{ units} = c} \end{aligned}$$

2. (3, 2), (0, -4)



$$\begin{aligned} 3^2 + 6^2 &= c^2 \\ 9 + 36 &= c^2 \\ \sqrt{45} &= \sqrt{c^2} \\ \mathbf{6.7 \text{ units} = c} \end{aligned}$$

3. (-4, 3.5), (2, 1.5)



$$\begin{aligned} 2^2 + 6^2 &= c^2 \\ 4 + 36 &= c^2 \\ \sqrt{40} &= \sqrt{c^2} \\ \mathbf{6.3 \text{ units} = c} \end{aligned}$$

Use the Distance Formula to find the distance between each pair of points. Round to the nearest tenth if necessary.

4. W(2, 5), U(-4, 3)

$$\begin{aligned} d &= \sqrt{(-4-2)^2 + (3-5)^2} \\ d &= \sqrt{(-6)^2 + (-2)^2} \\ d &= \sqrt{36 + 4} \\ d &= \sqrt{40} \approx \mathbf{6.3 \text{ units}} \end{aligned}$$

5. A(-1, 7), B(-3, -5)

$$\begin{aligned} d &= \sqrt{(-3-(-1))^2 + (-5-7)^2} \\ d &= \sqrt{(-2)^2 + (-12)^2} \\ d &= \sqrt{4 + 144} \\ d &= \sqrt{148} = \mathbf{12.2 \text{ units}} \end{aligned}$$

6. P(1, 1), Q(-1, -1)

$$\begin{aligned} d &= \sqrt{(-1-1)^2 + (-1-1)^2} \\ d &= \sqrt{(-2)^2 + (-2)^2} \\ d &= \sqrt{4 + 4} \\ d &= \sqrt{8} = \mathbf{2.8 \text{ units}} \end{aligned}$$

7. $M(5, -3), N(9, 1)$

$$d = \sqrt{(9-5)^2 + (1-(-3))^2}$$

$$d = \sqrt{(4)^2 + (4)^2}$$

$$d = \sqrt{16 + 16}$$

$$d = \sqrt{32} = 5.7 \text{ units}$$

8. $C(-4, -8), D(2, 2)$

$$d = \sqrt{(2-(-4))^2 + (2-(-8))^2}$$

$$d = \sqrt{(6)^2 + (10)^2}$$

$$d = \sqrt{36 + 100}$$

$$d = \sqrt{136} = 11.7 \text{ units}$$

9. $R(-4, 2), S(-4, -9)$

$$d = \sqrt{(-4-(-4))^2 + (-9-2)^2}$$

$$d = \sqrt{(0)^2 + (-11)^2}$$

$$d = \sqrt{0 + 121}$$

$$d = \sqrt{121} = 11 \text{ units}$$

10. $E\left(\frac{1}{2}, 4\frac{1}{4}\right), F\left(5, -\frac{1}{2}\right)$

$$d = \sqrt{\left(5 - \frac{1}{2}\right)^2 + \left(-\frac{1}{2} - 4\frac{1}{4}\right)^2}$$

$$d = \sqrt{\left(4\frac{1}{2}\right)^2 + \left(-4\frac{3}{4}\right)^2}$$

$$d = \sqrt{20.25 + 22.5625}$$

$$d = \sqrt{42.8125} = 6.5 \text{ or } 6\frac{1}{2} \text{ units}$$

11. $J(5.4, -3.2), K(4, -1.2)$

$$d = \sqrt{(4-5.4)^2 + (-1.2-(-3.2))^2}$$

$$d = \sqrt{(-1.4)^2 + (2)^2}$$

$$d = \sqrt{1.96 + 4}$$

~~$$d = \sqrt{5.96}$$~~

$$d = \sqrt{5.96} = 2.4 \text{ units}$$

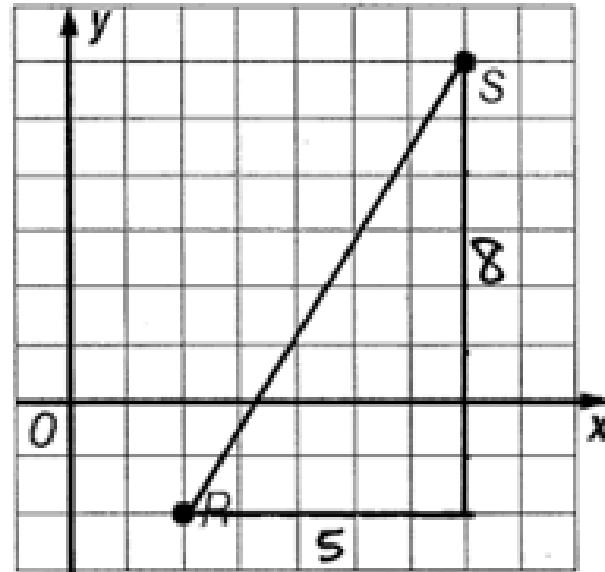
12. Find the distance between points R and S shown at the right.
Round to the nearest tenth.

$$5^2 + 8^2 = c^2$$

$$25 + 64 = c^2$$

$$\sqrt{89} = \sqrt{c^2}$$

$$c = 9.4 \text{ units}$$



13. **GEOMETRY** If one point is located at $(-6, 2)$ and another point is located at $(6, -3)$, find the distance between the points.

$$d = \sqrt{(6 - (-6))^2 + (-3 - 2)^2}$$

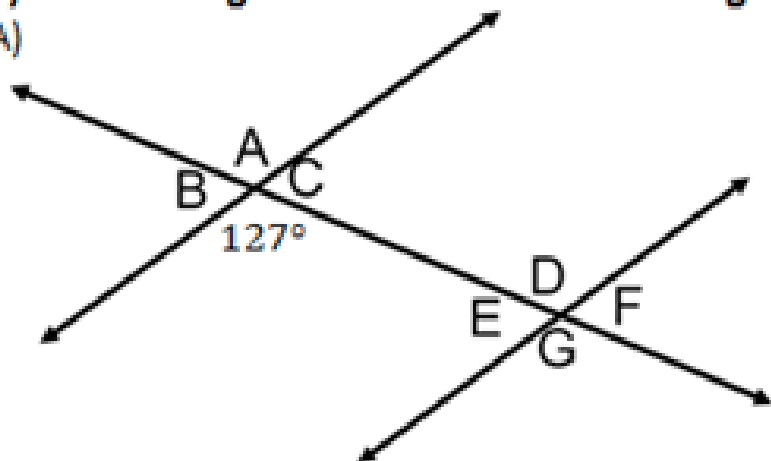
$$d = \sqrt{(12)^2 + (-5)^2}$$

$$d = \sqrt{144 + 25}$$

$$d = \sqrt{169} = 13 \text{ units}$$

1) Find the angle measurement of each angle using the information you are given. LABEL

A)



$\angle A = \underline{\hspace{2cm}}$

$\angle B = \underline{\hspace{2cm}}$

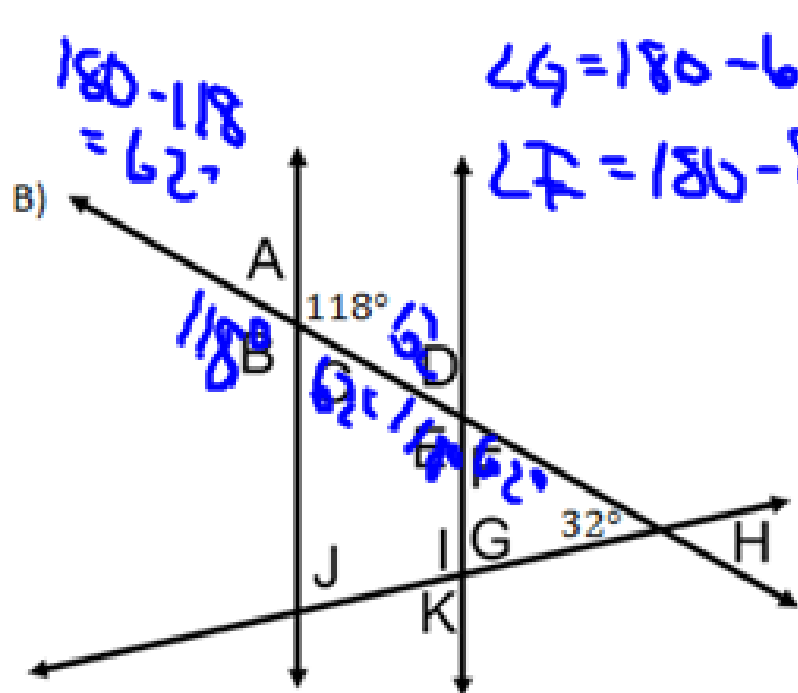
$\angle C = \underline{\hspace{2cm}}$

$\angle D = \underline{\hspace{2cm}}$

$\angle E = \underline{\hspace{2cm}}$

$\angle F = \underline{\hspace{2cm}}$

$\angle G = \underline{\hspace{2cm}}$



$\angle A = \underline{62^\circ}$

$\angle B = \underline{118^\circ}$

$\angle C = \underline{62^\circ}$

$\angle D = \underline{62^\circ}$

$\angle E = \underline{118^\circ}$

$\angle F = \underline{62^\circ}$

$\angle G = \underline{86^\circ}$

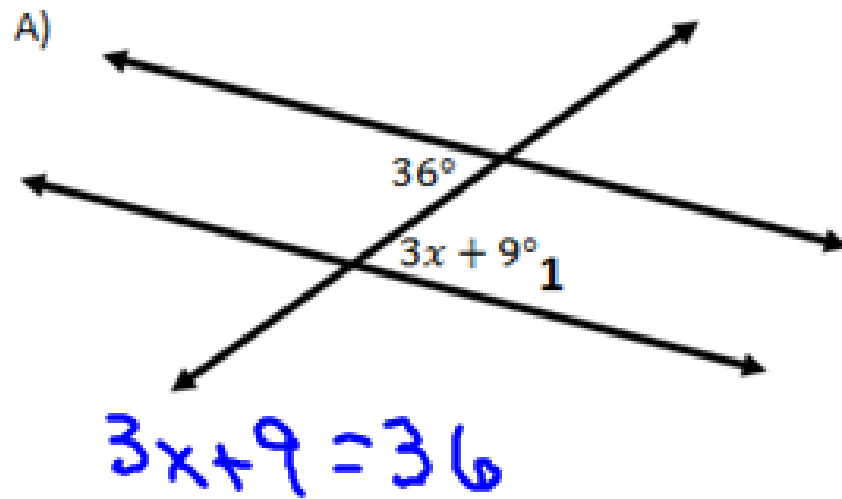
$\angle H = \underline{32^\circ}$

$\angle I = \underline{94^\circ}$

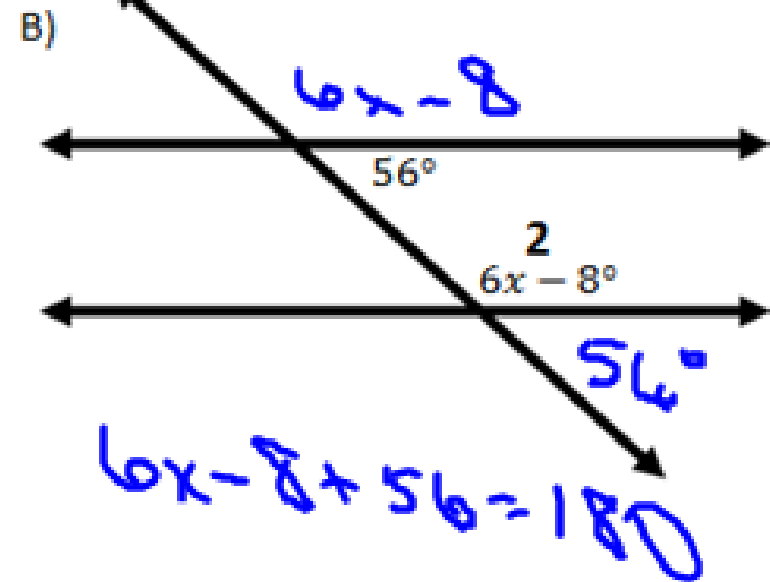
$\angle J = \underline{86^\circ}$

$\angle K = \underline{86^\circ}$

2) Create an equation to find the value of x and the measure of the missing angle. SHOW WORK AND LABEL.

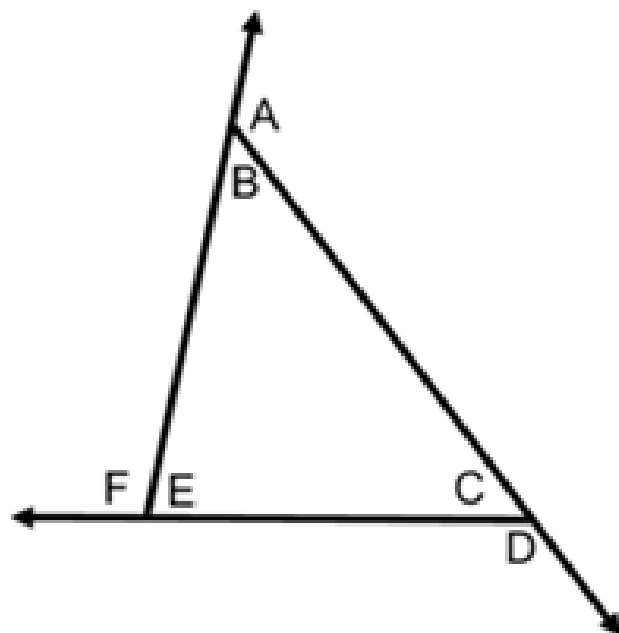


$x = \underline{\hspace{2cm}}$ $\angle 1 = \underline{\hspace{2cm}}$



$x = \underline{\hspace{2cm}}$ $\angle 2 = \underline{\hspace{2cm}}$

3) Complete the following equations using the figure below and your knowledge of exterior angles of triangles



A) $\angle F = \angle \underline{B} + \angle \underline{C}$

B) $\angle \underline{D} = \angle E + \angle B$

C) $\angle A + \angle B = \underline{180}^\circ$ (Number of degrees)

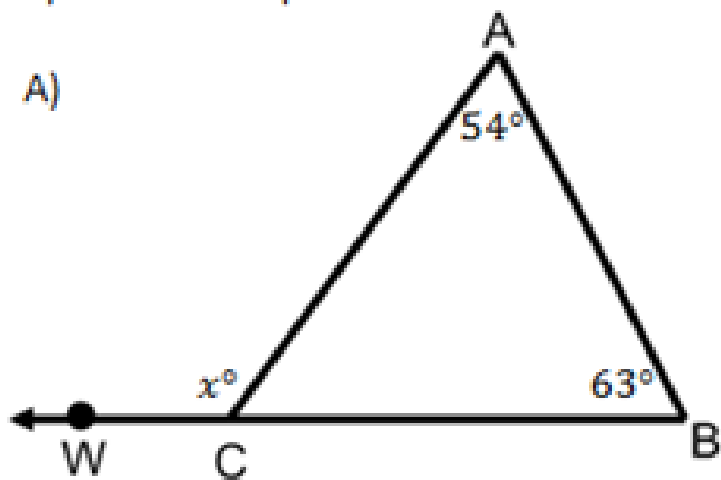
D) $\angle A + \angle D + \angle F = \underline{360}^\circ$ (Number of degrees)

E) $\angle B + \angle C + \angle E = \underline{180}^\circ$ (Number of degrees)

F) $180^\circ - \angle D = \angle \underline{C}$

4) Create an equation to find the value of x and the measure of the missing angle. SHOW WORK AND LABEL.

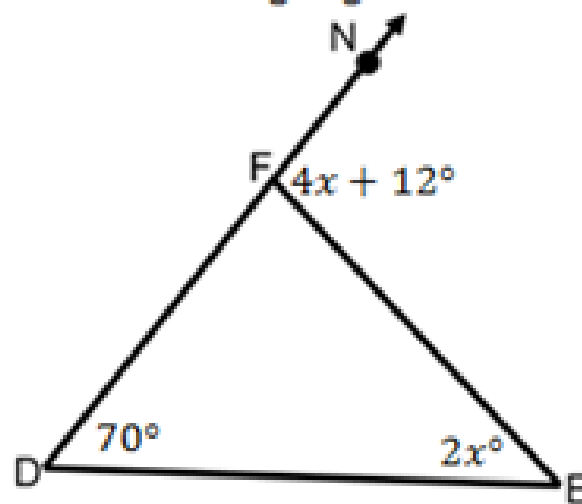
A)



$$x = \underline{\hspace{2cm}}$$

$$\angle ACW = \underline{\hspace{2cm}} \quad \angle ACB = \underline{\hspace{2cm}}$$

B)



$$x = \underline{\hspace{2cm}} \quad \angle EFN = \underline{\hspace{2cm}}$$

$$\angle DEF = \underline{\hspace{2cm}} \quad \angle DFE = \underline{\hspace{2cm}}$$

5) Find the following measurements of the following regular polygons.

A) Nonagon $(9-2) \cdot 180$

Interior Angle Sum = _____

One Interior Angle = _____

Exterior Angle Sum = _____

One Exterior Angle = _____

B) Pentagon

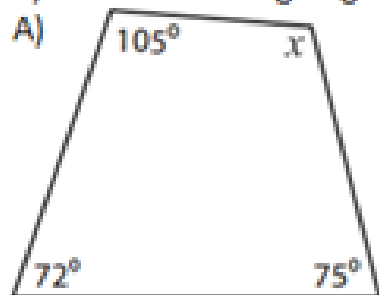
Interior Angle Sum = $540^\circ (n-2) \cdot 180$

One Interior Angle = _____

Exterior Angle Sum = _____

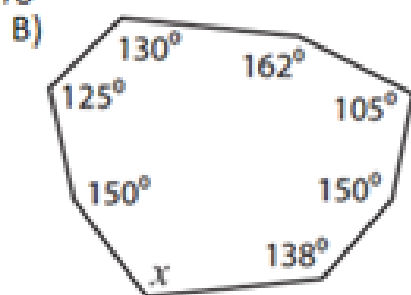
One Exterior Angle = _____

6) Find the missing angle of each polygon. SHOW WORK AND LABEL



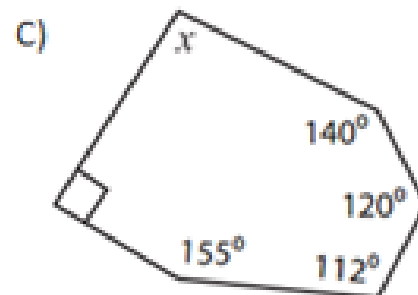
Angle Sum = _____

Missing Angle = _____



Angle Sum = _____

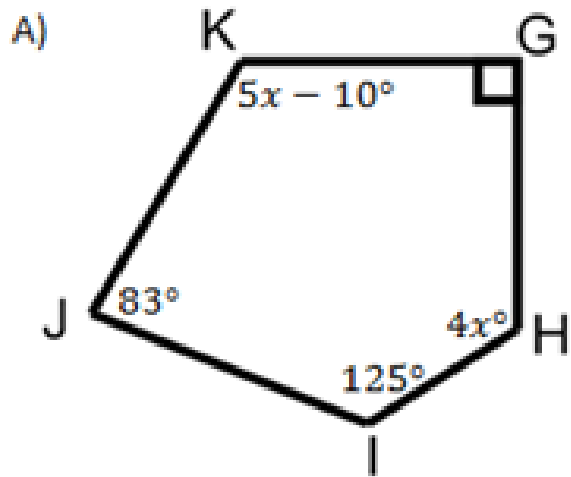
Missing Angle = _____



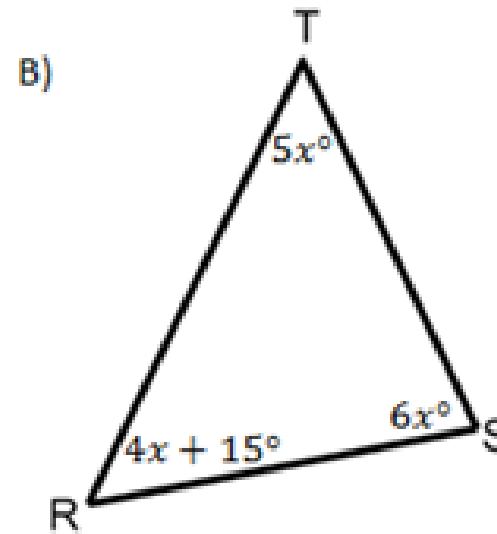
Angle Sum = _____

Missing Angle = _____

7) Create and solve an equation to find the value of x and measurement of the missing angles. SHOW WORK



$$= 540$$

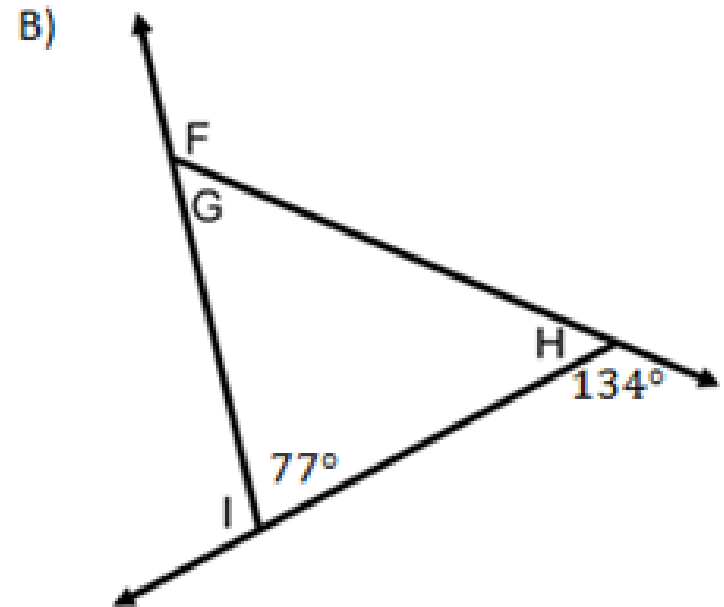
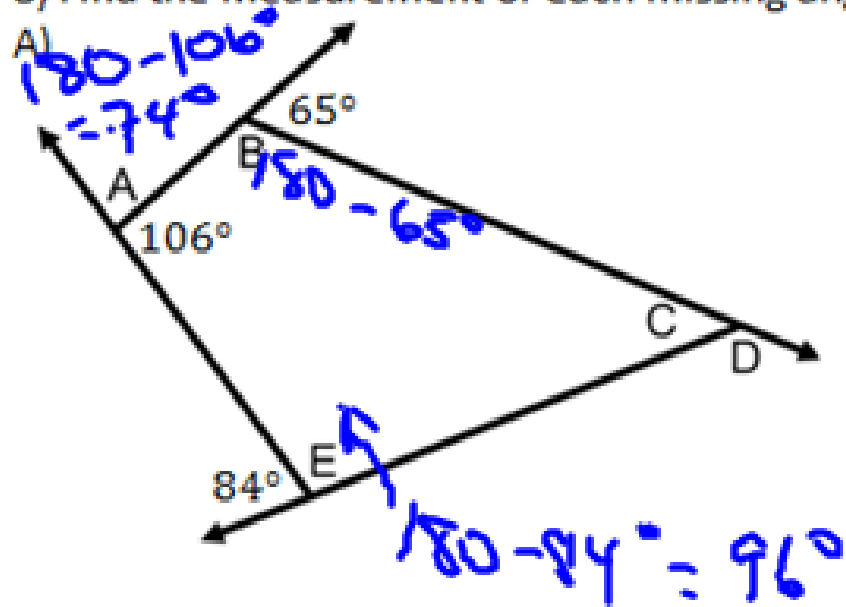


$$x = \underline{\hspace{2cm}} \quad \angle H = \underline{\hspace{2cm}} \quad \angle K = \underline{\hspace{2cm}}$$

$$x = \underline{\hspace{2cm}} \quad \angle R = \underline{\hspace{2cm}}$$

$$\angle S = \underline{\hspace{2cm}} \quad \angle T = \underline{\hspace{2cm}}$$

8) Find the measurement of each missing angle. SHOW WORK AND LABEL



$$\angle A = \underline{74} \quad \angle B = \underline{115} \quad \angle C = \underline{\quad}$$

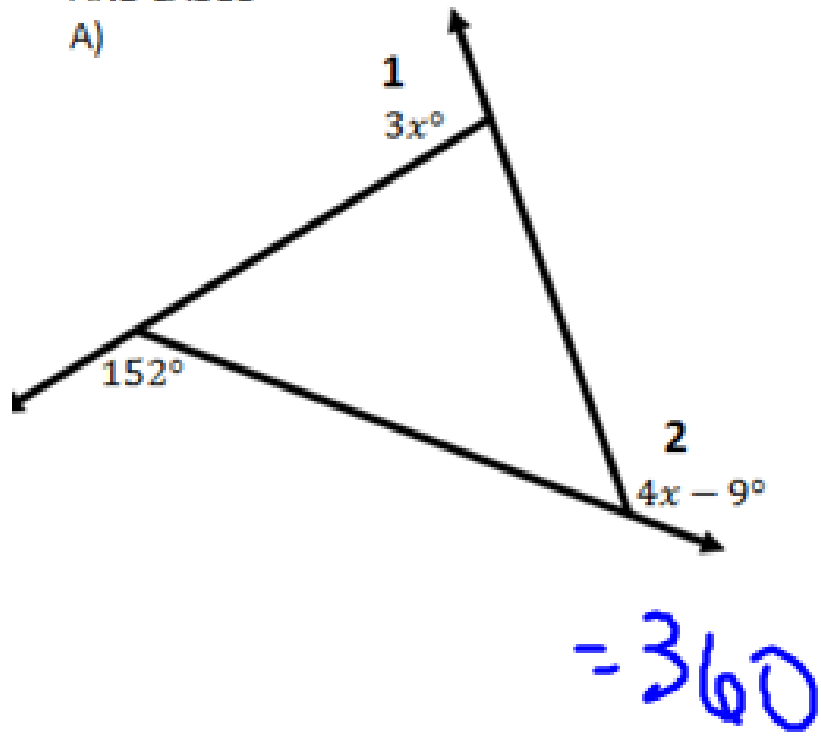
$$\angle D = \underline{\quad} \quad \angle E = \underline{96}$$

$$\angle F = \underline{\quad} \quad \angle G = \underline{\quad}$$

$$\angle H = \underline{\quad} \quad \angle I = \underline{\quad}$$

9) Create and solve an equation to find the value of x and the missing angle of each polygon. SHOW WORK AND LABEL

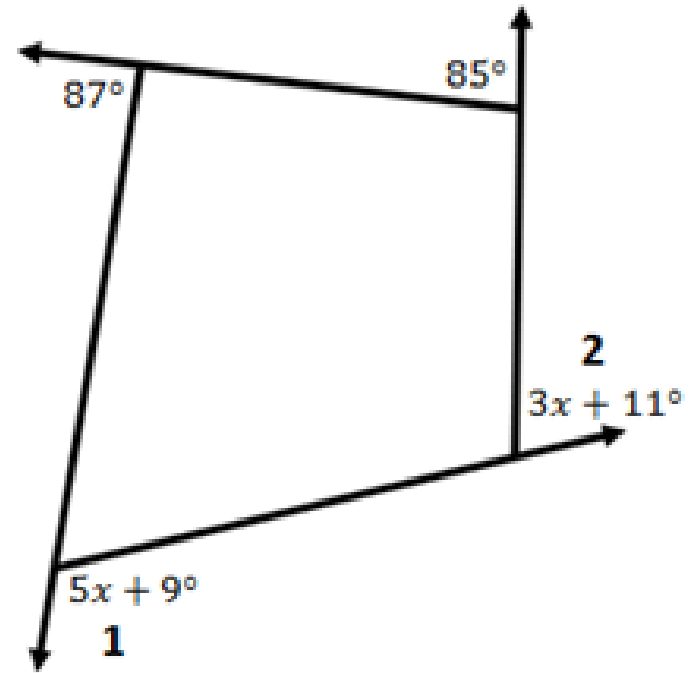
A)



$$x = \underline{\hspace{2cm}} \quad \angle 1 = \underline{\hspace{2cm}}$$

$$\angle 2 = \underline{\hspace{2cm}}$$

B)



$$x = \underline{\hspace{2cm}} \quad \angle 1 = \underline{\hspace{2cm}}$$

$$\angle 2 = \underline{\hspace{2cm}}$$