

Get your homework out and have it ready to check. Target Check has been moved to tomorrow. Grab a Warm Up from the front table and get to work!

Classwork - L1 and L3 Review then ~~Target Check~~

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

$$180 - 58 - 71 = 51^\circ$$

$$109 - 58$$

$$\angle A = \underline{51^\circ}$$

$$\angle B = \underline{58^\circ}$$

$$\angle C = \underline{71^\circ}$$

$$\angle D = \underline{109^\circ}$$

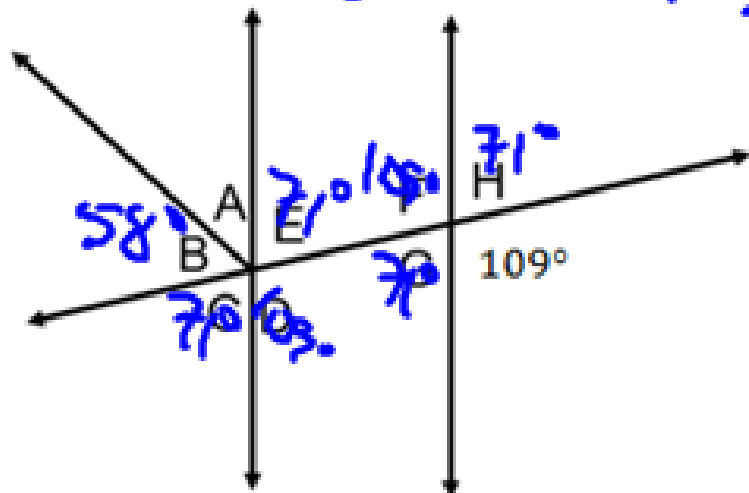
$$\angle E = \underline{71^\circ}$$

$$\angle F = \underline{109^\circ}$$

$$\angle G = \underline{71^\circ}$$

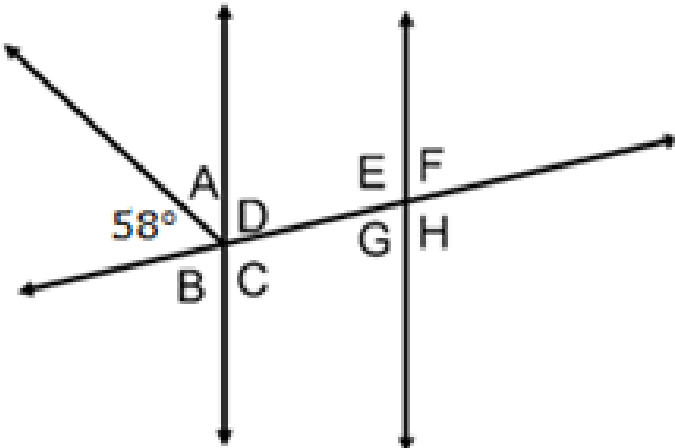
$$\angle H = \underline{71^\circ}$$

$$180 - 109$$



Correct #1

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



$\angle A =$ _____

$\angle B =$ _____

$\angle C =$ _____

$\angle D =$ _____

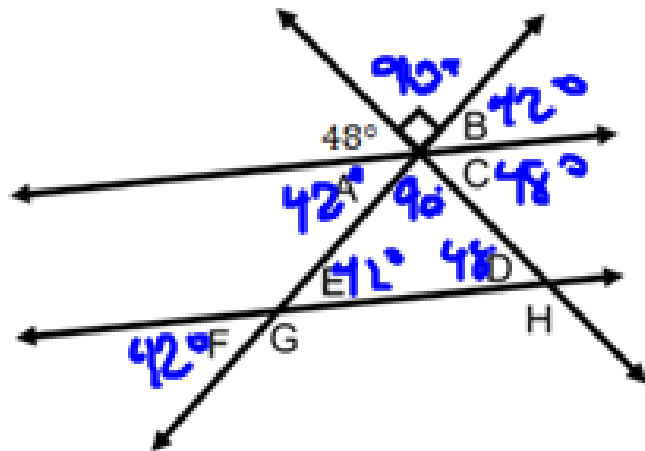
$\angle E =$ _____

$\angle F =$ _____

$\angle G =$ _____

$\angle H =$ _____

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



$$180 - 48 - 90$$

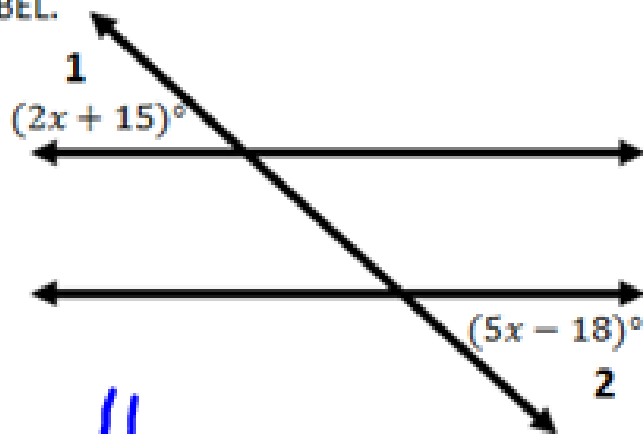
$$\angle A = \underline{42^\circ} \quad \angle B = \underline{42^\circ} \quad \angle C = \underline{48^\circ}$$

$$\angle D = \underline{48^\circ} \quad \angle E = \underline{42^\circ} \quad \angle F = \underline{42^\circ}$$

$$\angle G = \underline{138^\circ} \quad \angle H = \underline{132^\circ}$$

$$180 - 42 \quad 180 - 48$$

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



$$x = \underline{11}$$

$$\angle 1 = \underline{37^\circ} \quad 2(11) + 15$$

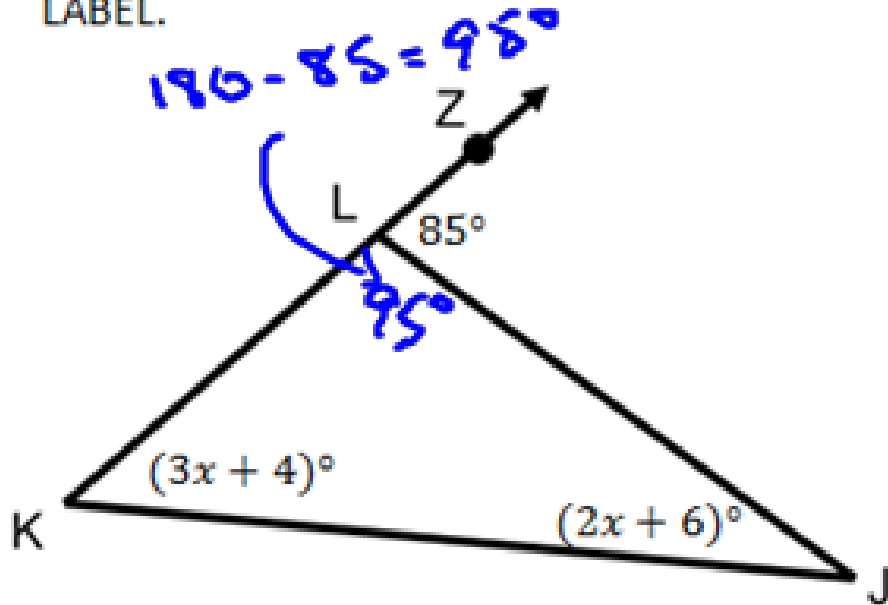
$$\angle 2 = \underline{37^\circ} \quad 5(11) - 18$$

$$\begin{array}{r} 2x + 15 = 5x - 18 \\ -2x \quad \quad -2x \\ \hline \end{array}$$

$$\begin{array}{r} 15 = 3x - 18 \\ +18 \quad \quad +18 \\ \hline \end{array}$$

$$\frac{33}{3} = \frac{3x}{3} \quad \textcircled{x = 11}$$

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



$$x = \underline{15}$$

$$\angle JKL = \underline{49^\circ} \quad 3(15) + 4$$

$$\angle LJK = \underline{36^\circ} \quad 2(15) + 6$$

$$\angle KLJ = \underline{95^\circ}$$

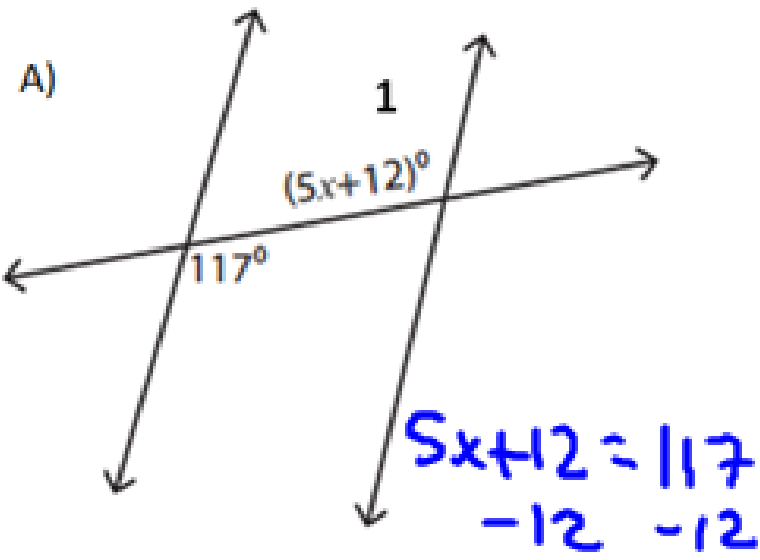
$$(3x + 4) + (2x + 6) = 85$$

$$5x + 10 = 85$$

$$\begin{array}{r} -10 \\ \hline 5x = 75 \end{array}$$

$$x = 15$$

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



$$5x + 12 = 117$$

$$\begin{array}{r} -12 \\ \hline 5x = 105 \\ \hline x = 21 \end{array}$$

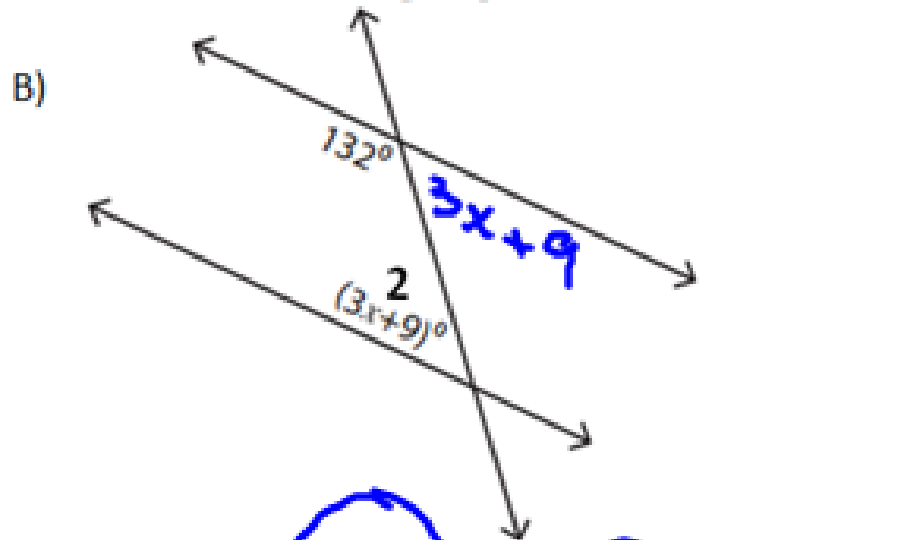
$$x = \underline{21}$$

$$\angle 1 = \underline{117^\circ}$$

$$5(21) + 12$$

$$105 + 12$$

$$\angle 1 = 117$$



$$132 + 3x + 9 = 180$$

$$3x + 141 = 180$$

$$x = \underline{13}$$

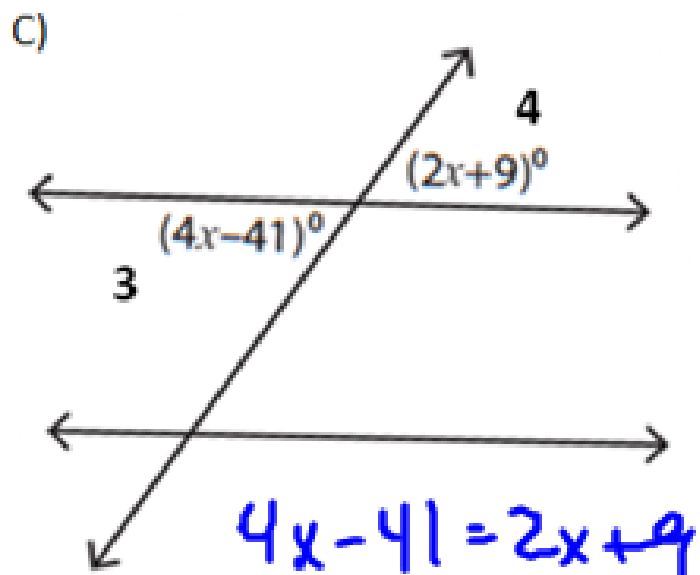
$$\angle 2 = \underline{48^\circ}$$

$$3(13) + 9 = 48$$

$$\frac{180}{3} - 141 = 39$$

$$\frac{39}{3} = 13$$

$$x = \underline{13}$$



$$4x - 41 = 2x + 9$$

$$\begin{array}{r} -2x \quad -2x \\ \hline 2x - 41 = 9 \end{array}$$

$$\begin{array}{r} +41 \quad +41 \\ \hline 2x = 50 \end{array}$$

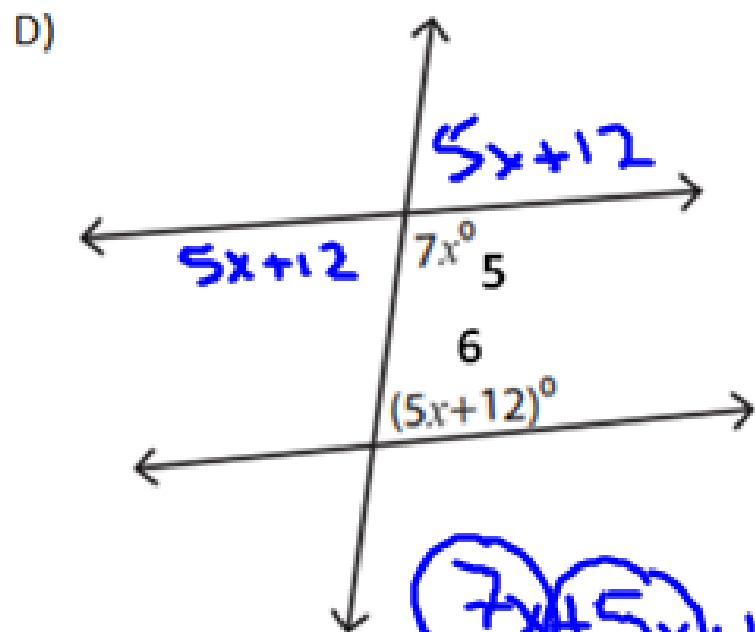
$$\frac{2x}{2} = \frac{50}{2}$$

$$x = \underline{25}$$

$$x = \underline{25}$$

$$\angle 3 = \underline{59^\circ} \quad 4(25) - 41$$

$$\angle 4 = \underline{59^\circ} \quad 2(25) + 9$$



$$7x + 5x + 12 = 180$$

$$\begin{array}{r} 12x + 12 = 180 \\ -12 \quad -12 \\ \hline 12x = 168 \end{array}$$

$$\frac{12x}{12} = \frac{168}{12}$$

$$x = \underline{14}$$

$$7(14)$$

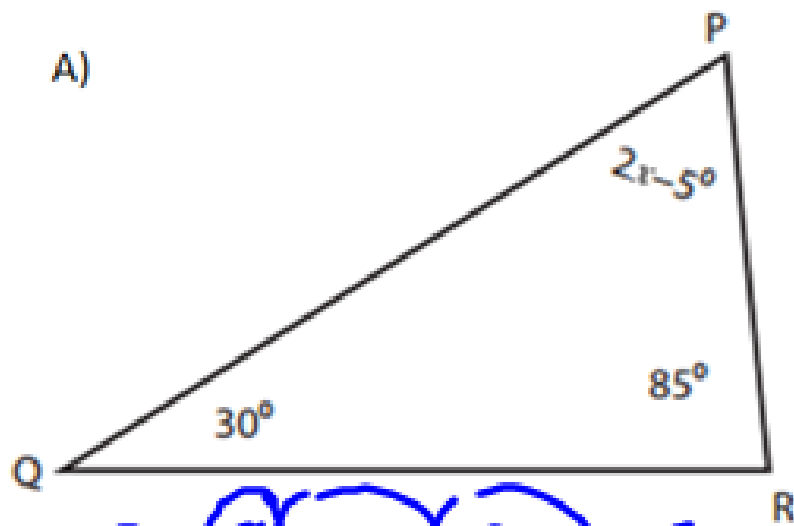
$$5(14) + 12$$

$$x = \underline{14}$$

$$\angle 5 = \underline{98^\circ}$$

$$\angle 6 = \underline{82^\circ}$$

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



$$2x - 5 + 30 + 85 = 180$$

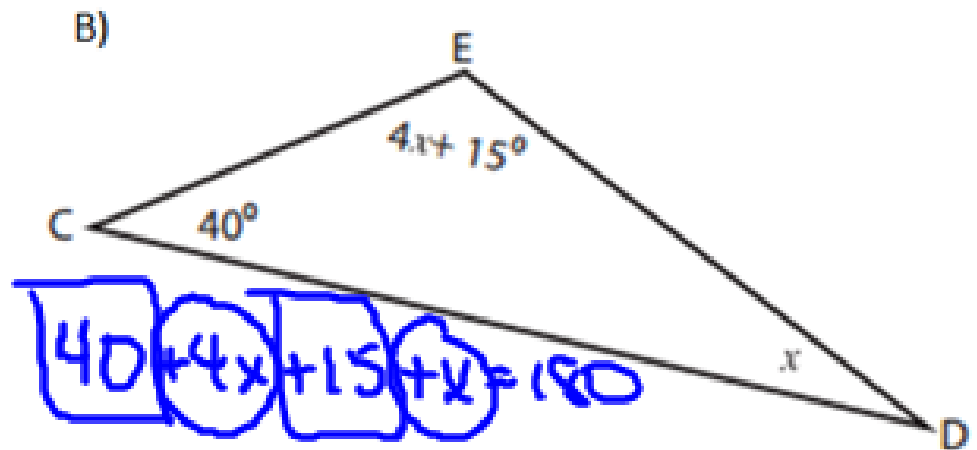
$$2x + 110 = 180$$

$$\begin{array}{r} -110 \quad -110 \\ \hline \end{array}$$

$$\frac{2x}{2} = \frac{70}{2} \quad x = 35$$

$$x = \underline{35} \quad \angle P = \underline{65}$$

$$\begin{aligned} 2(35) - 5 \\ 70 - 5 = 65 \end{aligned}$$



$$40 + 4x + 15 + x = 180$$

$$5x + 55 = 180$$

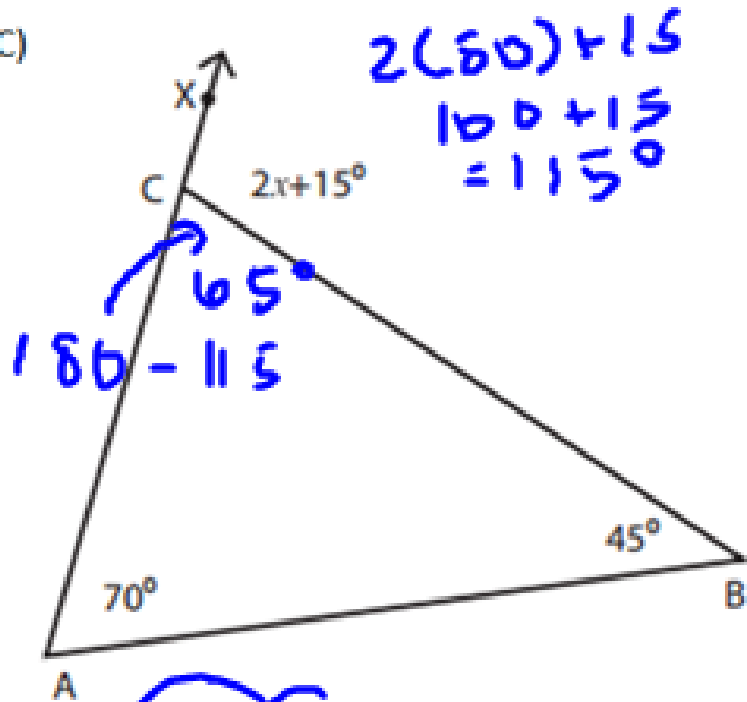
$$\begin{array}{r} -55 \quad -55 \\ \hline \end{array}$$

$$\frac{5x}{5} = \frac{125}{5} \quad x =$$

$$x = \underline{25} \quad \angle D = \underline{25^\circ} \quad \angle E = \underline{115}$$

$$\begin{aligned} 4(25) + 15 \\ 100 + 15 \end{aligned}$$

c)



$$2(50) + 15$$

$$100 + 15$$

$$= 115^\circ$$

$$(70 + 45) = 2x + 15$$

$$115 = 2x + 15$$

$$\begin{array}{r} -15 \\ \hline 100 = 2x \end{array}$$

$$\frac{100}{2} = \frac{2x}{2}$$

$$x = \underline{50} \quad x = 50$$

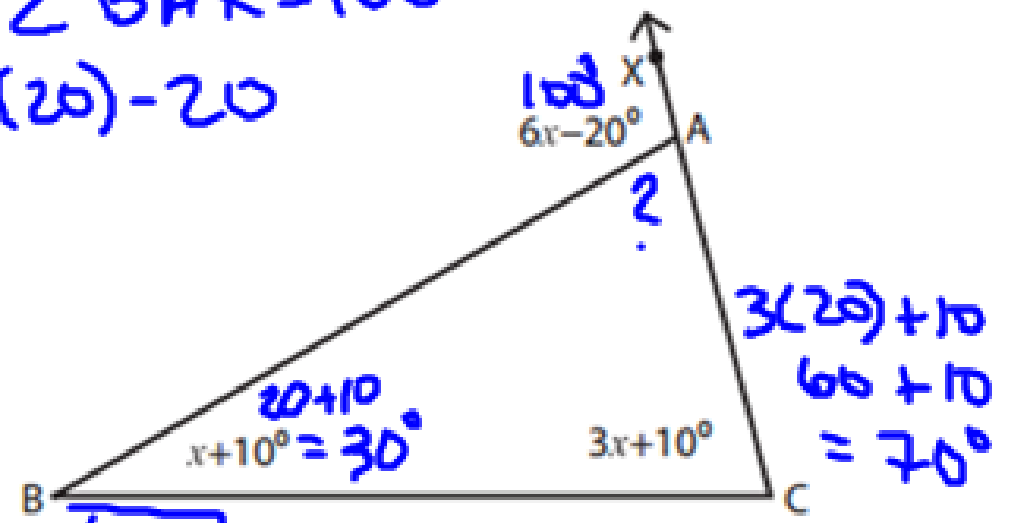
$$\angle ACB = \underline{65^\circ}$$

$$\angle BCX = \underline{115^\circ}$$

d)

$$\angle BAX = 100^\circ$$

$$6(20) - 20$$



$$3(20) + 10$$

$$60 + 10$$

$$= 70^\circ$$

$$(x + 10) + (3x + 10) = 6x - 20$$

$$4x + 20 = 6x - 20$$

$$\begin{array}{r} -4x \\ \hline 20 = 2x - 20 \end{array}$$

$$\begin{array}{r} 20 = 2x - 20 \\ +20 \quad +20 \\ \hline 40 = 2x \end{array}$$

$$x = \underline{20} \quad 40 = 2x$$

$$\angle BAC = \underline{80^\circ} \quad \angle ACB = \underline{70^\circ}$$

$$\angle BAX = \underline{100^\circ} \quad \angle ABC = \underline{30^\circ}$$