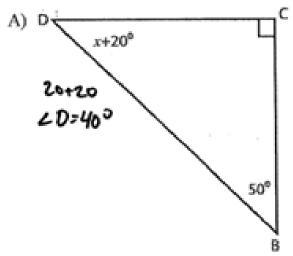
# Get out your homework and have it ready to check. We will have a target check on Tuesday over finding missing angles. Warm on #2 from your homework from last night!

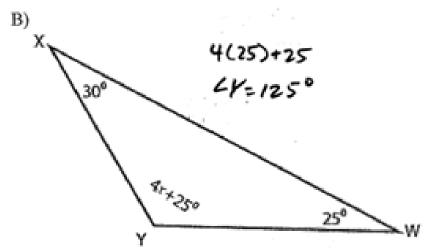
## Classwork - Finding Missing Angles

1) Write and solve an equation to find the value of x. Find the measurements of the missing angles using x.



Equation 
$$\Rightarrow$$
 ×420+90+50 = 180  
×+160 = 180  
-160 -160  
×= 20

$$x = 20 m \angle D = 40^{\circ}$$



Equation 
$$\Rightarrow 30+4x+25+25=180$$

$$4x+80=180$$

$$-80=80$$

$$4x=100$$

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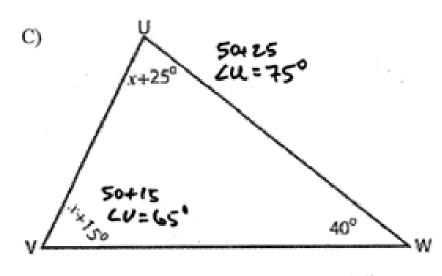
$$4=100$$

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Equation 
$$\Rightarrow x + 25 + x + 15 + 40 = 180$$

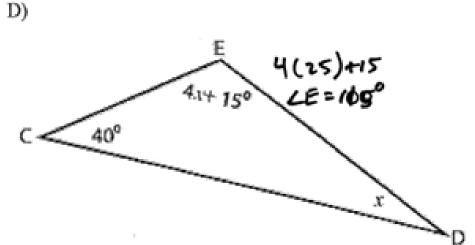
$$2x + 80 = 180$$

$$-80 - 80$$

$$2x = 100$$

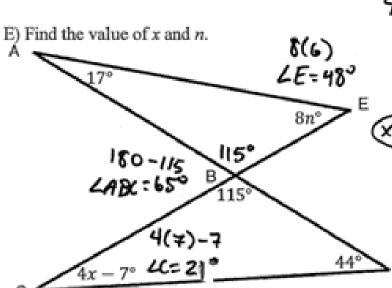
$$x = 50$$

$$x = 50$$
  $m \angle V = 65$   $m \angle U = 75$ 



Equation 
$$\Rightarrow x + 4x + 15 + 40 = 180$$
  
 $5x + 55 = 180$   
 $-55 - 55$   
 $\frac{5x}{5} = \frac{125}{5} x = 25$ 

$$x = 50$$
  $m \angle V = 65^{\circ}$   $m \angle U = 75^{\circ}$   $x = 25$   $m \angle D = 25^{\circ}$   $m \angle E = 1/5^{\circ}$ 



$$4x-7+115+44=180$$
 $8x+152=180$ 
 $-152=180$ 
 $-152=180$ 
 $8x+132=180$ 
 $-132=180$ 
 $-132=180$ 
 $-132=180$ 
 $-132=180$ 

$$\frac{8 \times 8}{8 \times 135 = 180}$$

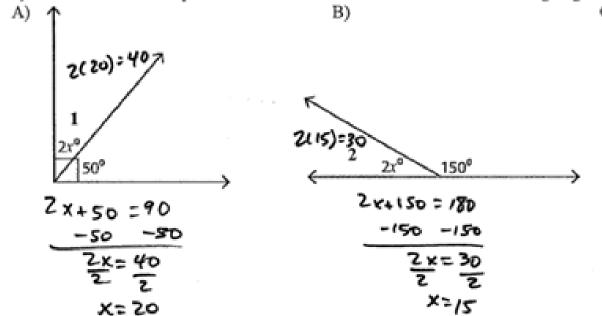
$$x = 7$$
  $n = 6$   $m \angle C = 2 \uparrow$ 

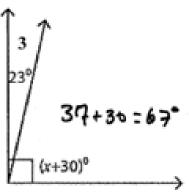
$$m \angle E = 48^{\circ}$$
  $m \angle ABC = 65^{\circ}$ 

F) Name the angle that is vertical angles with  $\angle ABC$ .

LDBE

2) Write and solve an equation to find the value of x. Then find the missing angle.



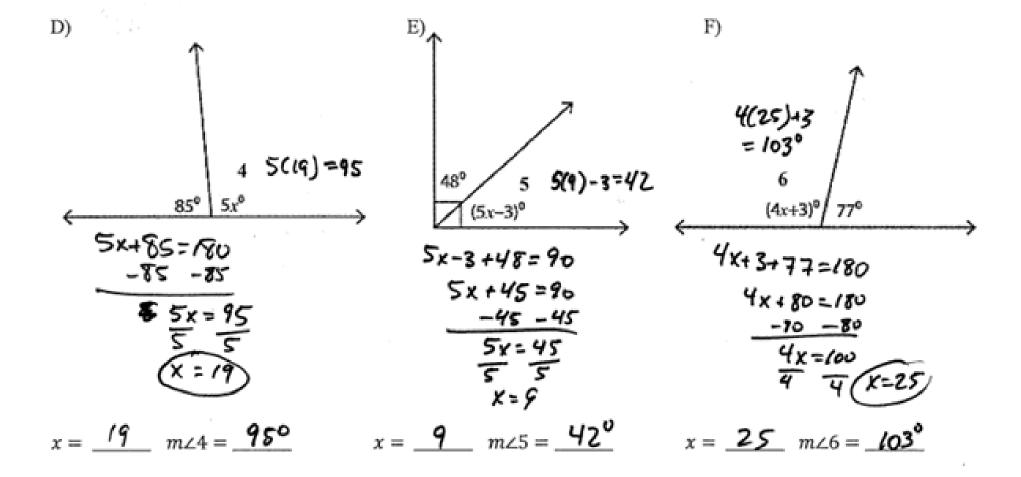


$$x = 20 \quad m \ge 1 = 40^{\circ}$$

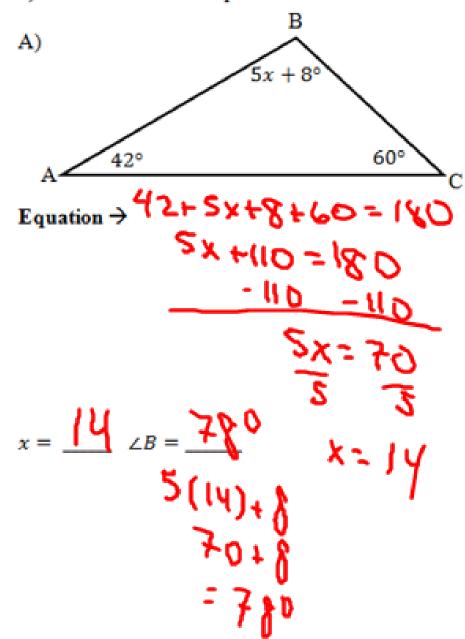
X= 20

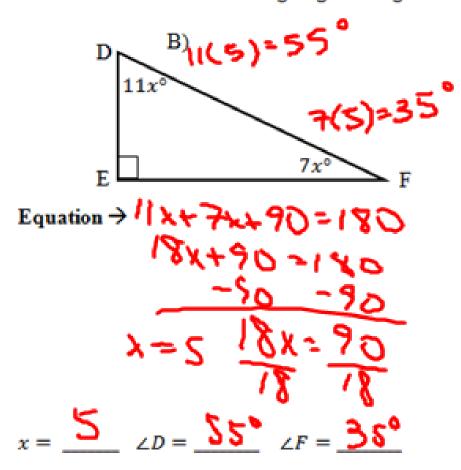
$$x = /S m \angle 2 = 30^{\circ}$$

$$x = 37 \quad m \angle 3 = 67^{\circ}$$

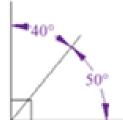


1) Write and solve an equation to find the value of x. Find the measurements of the missing angles using x.



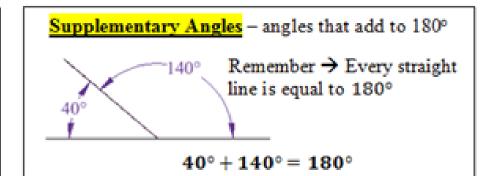




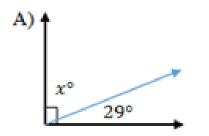


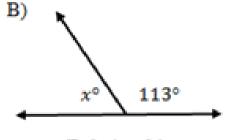
Remember  $\rightarrow$  Giving a <u>COMPLEMENT</u> is the <u>RIGHT</u> thing to do.

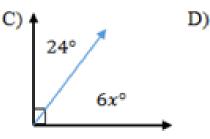
$$40^{\circ} + 50^{\circ} = 90^{\circ}$$

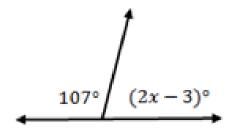


2) Write and solve an equation to find the value of x. Then find the missing angle(s).









Relationship

Complementor

Supplementary X+113-180

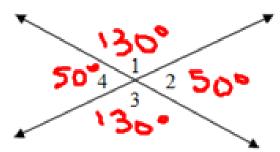
## Relationship

(>mp.

3y-3+105=8

### Intersecting Lines

When two lines intersect, they form two pairs of opposite angles that are congruent (equal).



∠1 and ∠3 are vertical angles with one another. This means that they are congruent and have the same angle measurement.

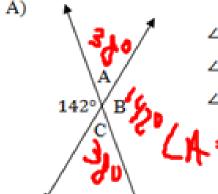
∠2 and ∠4 are vertical angles with one another. This means that they are congruent and have the same angle measurement.

- A) If  $\angle 1$  is 130°, that means that  $\angle 3$  is  $\frac{130}{30}$  degrees.
- B) ∠1 and ∠2 form a Straight line. What angle relationship is shown between ∠1 and ∠2?
- C) This means that  $\angle 1 + \angle 2 = \frac{1}{2}$  degrees. Determine the angle measurement of  $\angle 2$ .

D) What is the angle measurement of ∠4?

CH=180-29=1510

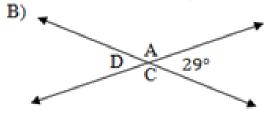
3) Find the angle measurement of each angle using the information you are given.



$$\angle A = \frac{380}{1420}$$

$$\angle B = \frac{142}{230}$$

$$\angle C = \frac{380}{230}$$



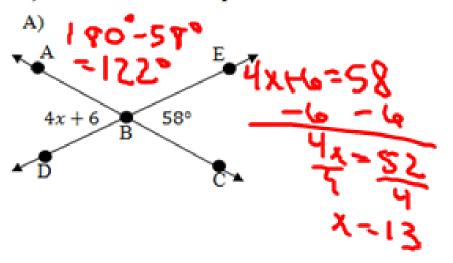
$$\angle A = \frac{127^{\circ}}{127^{\circ}}$$

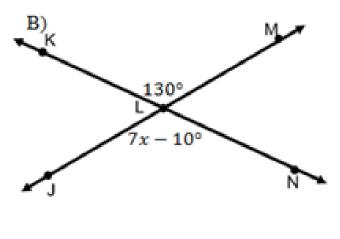
$$\angle C = \frac{127^{\circ}}{090}$$

#### Vertical Angles

Vertical angles are congruent to one another, which means that their angle measures, or the expressions that represent the angle, are \_\_\_\_\_\_\_ to one another.

4) Write and solve an equation to find the value of x. Then find the measurements of the missing angles.





$$x = \frac{13}{20} \quad \text{use } x \text{ to find } \angle ABD = \frac{580}{200}$$

$$\angle ABE = \frac{1220}{200} \quad \angle DBC = \frac{1330}{200}$$

$$x =$$
\_\_\_\_  $\angle KLJ =$ \_\_\_\_  $\angle JLN =$ \_\_\_\_  $\angle MLN =$ \_\_\_\_