

Name _____ Per _____

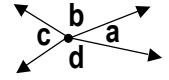
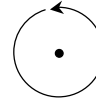
LO: I can identify **angle relationships** involving adjacent and vertical angles and use the relationships to solve for unknown values .

DO NOW On the back of this packet

(1) **Need to Know: Angles at a point or on a line**

What do we know about angles already?

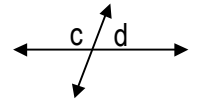
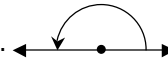
(a) The number of degrees around a point is _____.



(b) The sum of the **adjacent angles** around a point is _____

$a + b + c + d =$ _____

(c) The number of degrees in a **straight angle** is _____.



(d) Two **adjacent angles** that form a line are called a **linear pair**

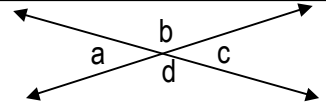
The sum of two angles on a straight line is _____.

The angles are also called _____.

$c + d =$ _____

(d) **Vertical angles** are across from each other when 2 lines intersect.

Vertical angles are always _____.



$a =$ _____

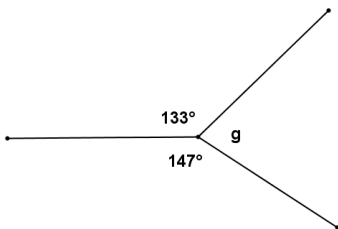
$b =$ _____

(2) **Angles: Using relationships**

transparencies, dry erase markers, erasers

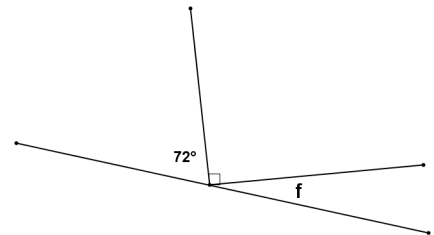
Use what you have stated in problem number 1 to find the measure of each unknown angle. Write an equation and solve it.

(a) Determine the measure of angle g .



$m\angle g =$ _____ because _____

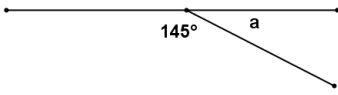
(b) Determine the measure of angle f .



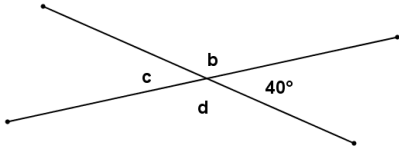
$m\angle f =$ _____ because _____

(3) **Angles: Using Relationships**

Use what you have stated in problem number 2 to find the measure of each unknown angle. Write an equation and solve it.



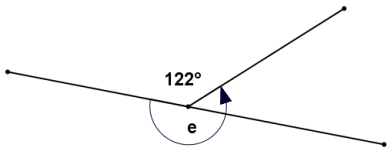
$m\angle a = \underline{\hspace{2cm}}$ because $\underline{\hspace{2cm}}$



$m\angle b = \underline{\hspace{2cm}}$ because $\underline{\hspace{2cm}}$

$m\angle c = \underline{\hspace{2cm}}$ because $\underline{\hspace{2cm}}$

$m\angle d = \underline{\hspace{2cm}}$ because $\underline{\hspace{2cm}}$

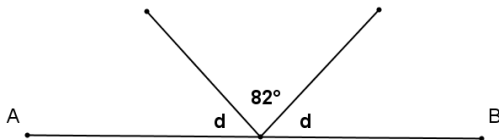


$m\angle e = \underline{\hspace{2cm}}$ because $\underline{\hspace{2cm}}$

(4) **Angles: Use relationships to solve problems**

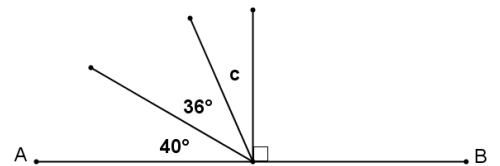
Identify a relationship, write an equation or equations, solve for each variable.

(a)



$d = \underline{\hspace{2cm}}$ because $\underline{\hspace{2cm}}$

(b)



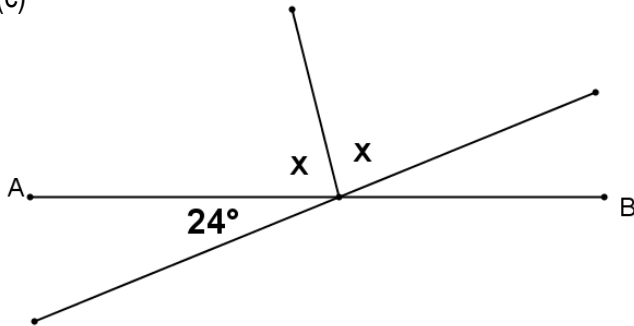
$c = \underline{\hspace{2cm}}$ because $\underline{\hspace{2cm}}$

(4) **Angles: Use relationships to solve problems**

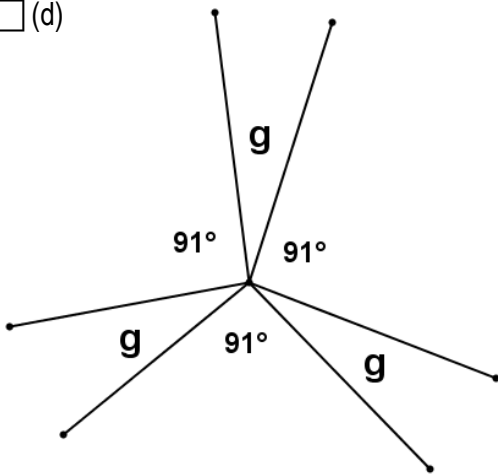
cont.

Identify a relationship, write an equation or equations, solve for each variable.

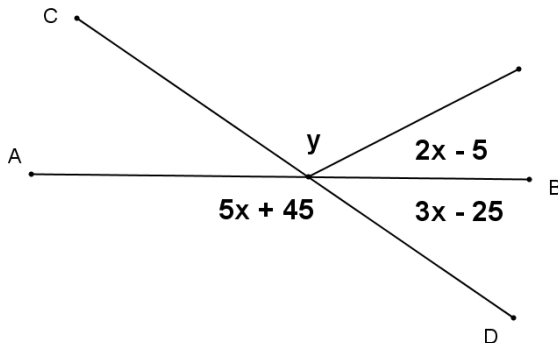
(c)



(d)



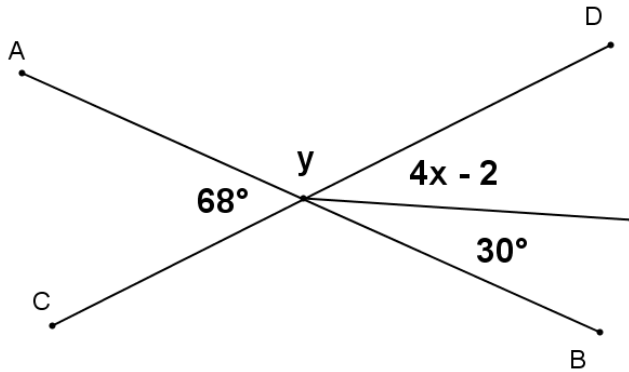
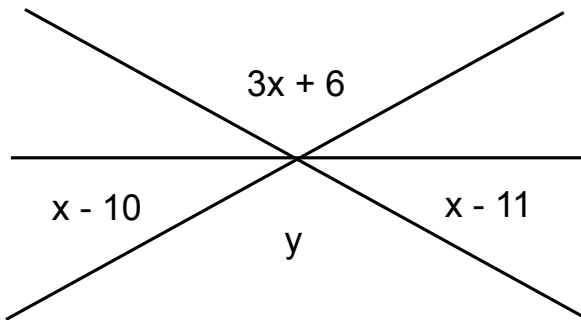
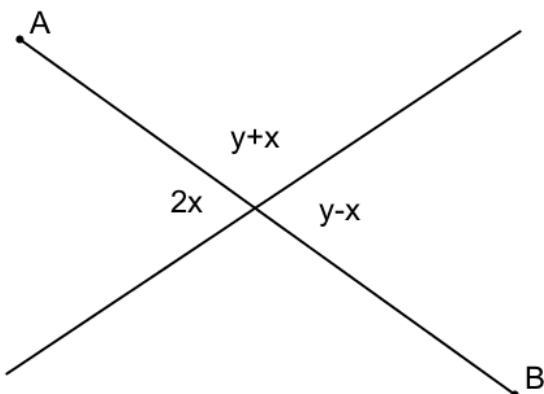
(e)



(4) **Angles: Use relationships to solve problems**

cont.

Identify a relationship, write an equation or equations, solve for each variable.

 (f) (g) (h)

(5) **Exit Ticket**

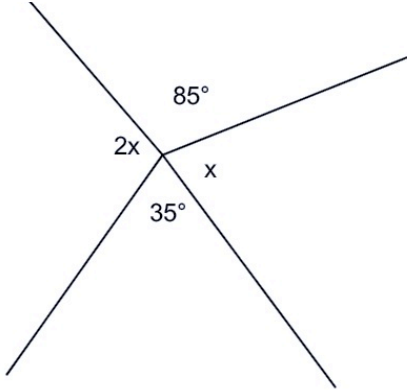
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(6) **Homework**

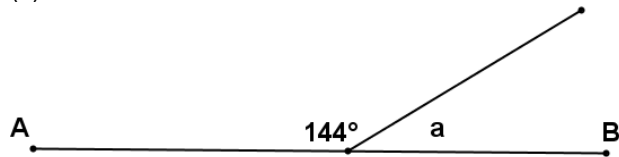
pen or
pencil

Identify a relationship, write an equation or equations, solve for each variable.

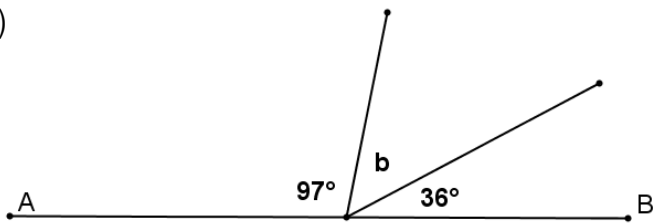
(1)



(2)



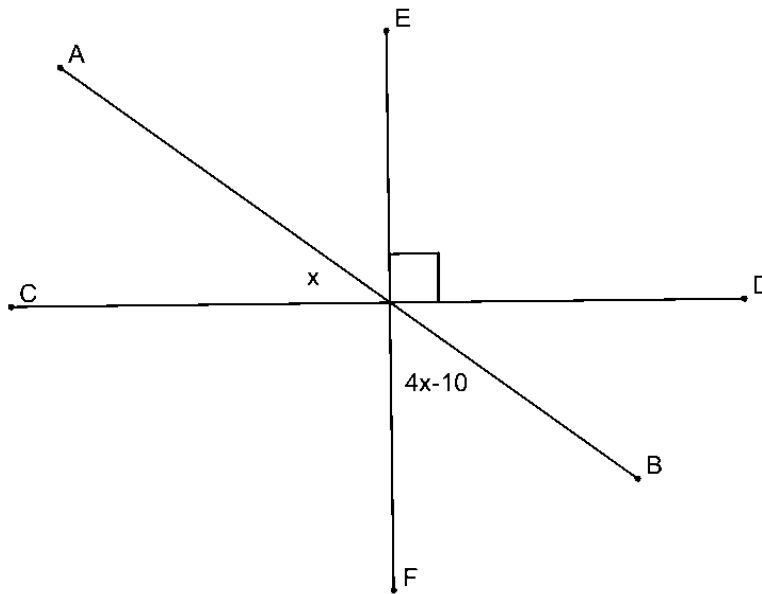
(3)



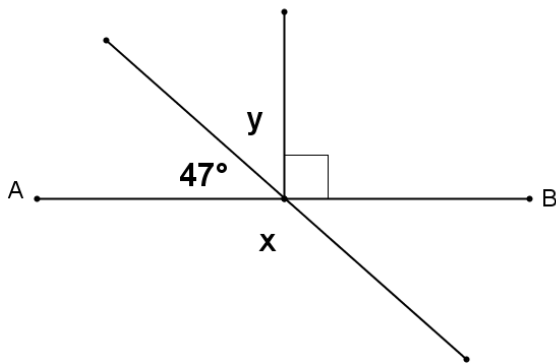
(6) Homeworkpen or
pencil

Identify a relationship, write an equation or equations, solve for each variable.

(4)



(5)

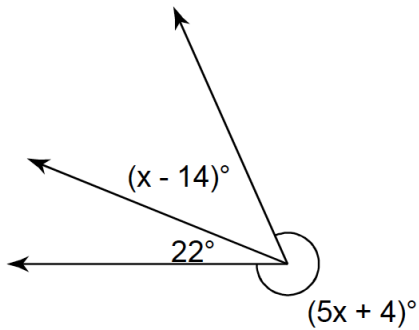
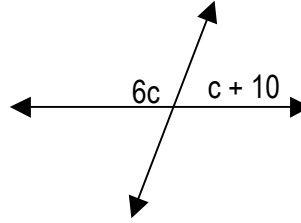
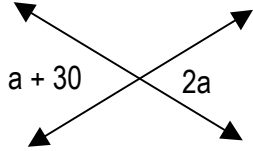


Exit Ticket Name _____ Date _____ Per _____

2.1L

(1) The LO (Learning Outcomes) are written below your name on the front of this packet. Demonstrate your achievement of these outcomes by doing the following:

Find the measures of a , c and x . Identify a relationship, write an equation, and solve for the variable.



(1) Solving progress: Solve one of the two problems below.

(a) $4m - 30 = 7 - (7 - 5m)$

(b) $14 - 8d + 5d = 12 - d$

(2) Translation to algebra progress. Yanique needs at least \$750 to go on a trip. She earns \$6.00 an hour doing odd jobs. She has already saved \$400. She also got \$50 for her birthday that she put towards the trip. Write an algebraic statement to represent this situation. Be sure to write a "Let" statement to define any variables.