Multiple Choice: Please place the LETTER of the correct answer on the line to left of each problem.



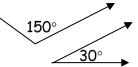


- complementary angles B)
- C) supplementary angles
- adjacent angles D)



Describe the relationship between the two angles. Choose all that apply

- A) complementary angles
- non-adjacent angles B)
- C) supplementary angles
- adjacent angles D)



Which of the following is the correct way to name  $\angle$  1? Select all that apply

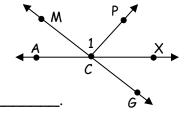
∠ MCX

A) ∠ ACM

∠ ACG

D)

- ∠ MCP B)
- ∠ PCX C)
- F) ∠ PCM

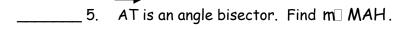


An angle that measures more than 90° but less than 180° is a(n) \_

E)

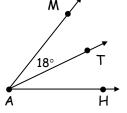
A) acute angle B) complementary angle

C) right angle D) obtuse angle



A) 9° B) 18°

C) 36° D) 90°



If F is in the interior of  $\square$  DAE,  $m\square$  DAE =  $86^{\circ}$ , and  $m\square$  FAE =  $23^{\circ}$ , then find  $m\square$  DAF.

A) 46∘

B) 63°

C) 109° D) 172°

The supplement of 35° is \_\_\_\_

A) 35°

55° B)

C) 145° D) 180°

Given  $\Box J = 4x + 16^{\circ}$ . If x = 24, then  $\Box J$  can be classified as what kind of angle.

A) Acute B) Right

C) Obtuse D) Straight

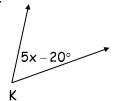
9. What values of x would make  $\square$  K an acute angle? Choose all the apply.

A) x = 6

B) x = 13

C) x = 22

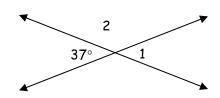
D) x = 120



<u>Free Response</u>: Solve the following problems and place your final answer on the line provided. Make sure to show all work.

10. Find  $m \square 1$  and  $m \square 2$ .

(2 pts)

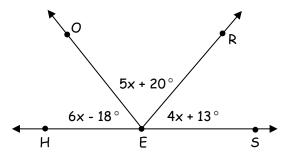


 $m\Box 1 =$ 

 $m\square 2 =$ 

11. Solve for x.

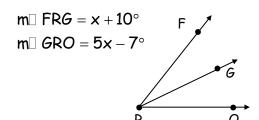
Find m OES.



x = \_\_\_\_\_

m OES = \_\_\_\_\_

12. RG is an angle bisector. Find x and  $m \square$  FRO.



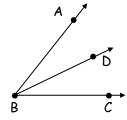
X = \_\_\_\_\_

m□ FRO = \_\_\_\_\_

13. BD is an angle bisector. Find x. (2 pts)

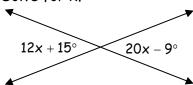
$$m\square \ ABD = 2x + 7^{\circ}$$

$$m\Box ABC = 10x - 16^{\circ}$$



× = \_\_\_\_\_

14. Solve for x.



× = \_\_\_\_\_