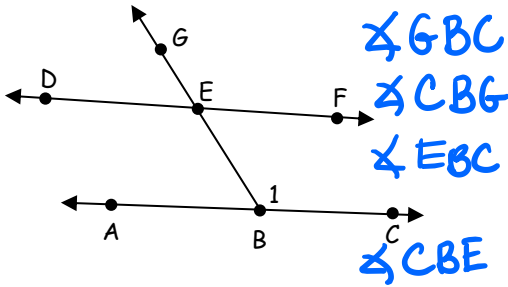


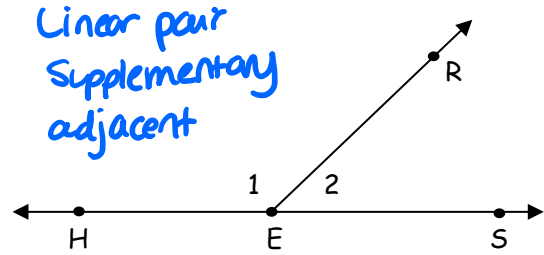
Geometry  
Unit 1 Quiz 2 Review Notes

Name:

1. Name  $\angle 1$  in all ways possible



2. What vocab words best describe  $\angle 1$  and  $\angle 2$



3. Given  $\angle J = 9x - 50^\circ$ . If  $x = 16$ , then  $\angle J$  can be classified what kind of angle?

$$9(16) - 50$$

$$144 - 50$$

$$94^\circ \rightarrow \text{obtuse}$$

4. What values of  $x$  would make  $\angle K$  an obtuse angle? Choose all that apply - show work to justify your choices!

A) ~~6~~      B) ~~14~~      C) 16      D) 20  
 E) ~~24~~      F) ~~28~~      G) 95      H) ~~180~~

$$9x - 36 > 90$$

$$9x > 126$$

$$x > 14$$

$$9x - 36 < 180$$

$$9x < 216$$

$$x < 24$$

$$14 < x < 24$$

5. What is the complement of  $39^\circ$ ?

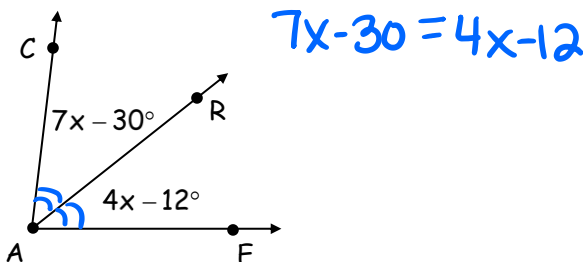
$$90 - 39 = 51^\circ$$

6. What is the supplement of  $68^\circ$ ?

$$180 - 68 = 112^\circ$$

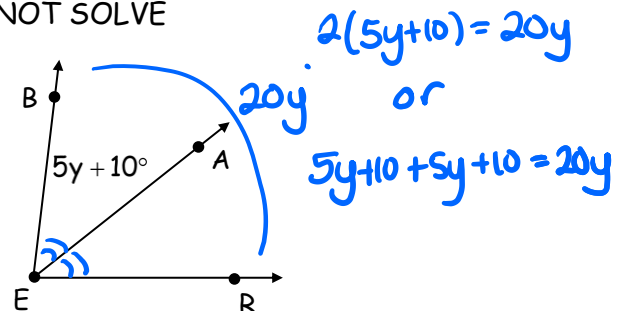
7.  $\overrightarrow{AR}$  bisects  $\angle CAE$ .

Set up an equation to solve for  $x$ .  
DO NOT SOLVE

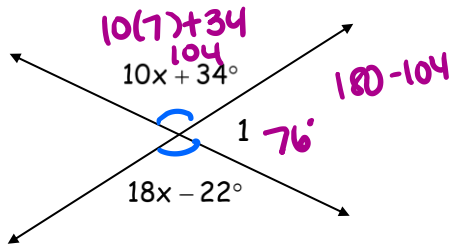


8.  $\overrightarrow{EA}$  bisects  $\angle BER$ .  $m\angle BER = 20y$

Set up an equation to solve for  $y$ .  
DO NOT SOLVE



9. Solve for  $x$ . Find  $m\angle 1$ .



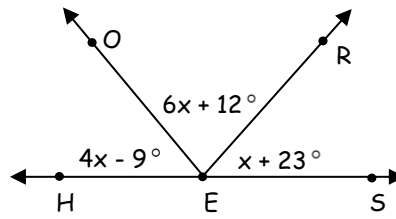
$$10x + 34 = 18x - 22$$

$$56 = 8x$$

$$x = 7$$

$$m\angle 1 = 76^\circ$$

10. Set up an equation to solve for  $x$ .  
DO NOT SOLVE.



$$4x - 9 + 6x + 12 + x + 23 = 180$$