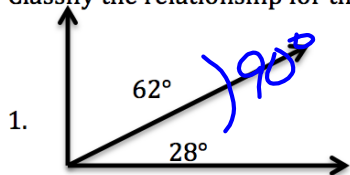
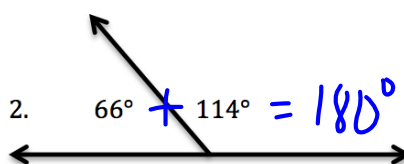
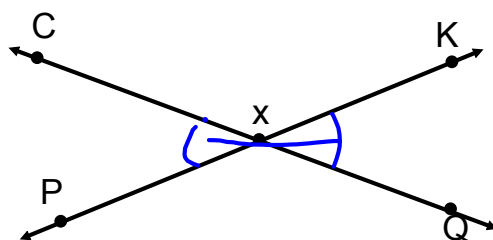


## DO NOW

Classify the relationship for the following angles:

ComplementarySupplementary

3. Name two acute vertical angles



$\angle KXQ$  &  
 $\angle CXP$

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## Homework Answers

1. Adjacent

2. Vertical

3. Adjacent

4. Supplementary/Adjacent

5. Adjacent

6. Vertical

7. Complementary

8. Supplementary

10.  $\angle FGE$  &  $\angle CGD$ 11.  $\angle EGD$  &  $\angle FGC$ 12. One example  
 $\angle DGE$  &  $\angle EGF$ 13.  $\angle AGB$  &  $\angle BGC$ 14. One example  
 $\angle EGD$ 

Jan 2-11:47 AM

## Angles and Algebra

Using algebra to find angle measures

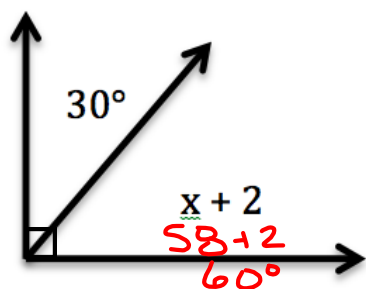
### STEPS

1. Classify the relationship between the angles.
2. Set up an equation to describe the relationship.
3. Solve for x.
4. Substitute x into your original equation. (ONLY IF THE INSTRUCTONS ASK FOR THE ANGLE MEASURES).

supplementary  
 complementary  
 vertical

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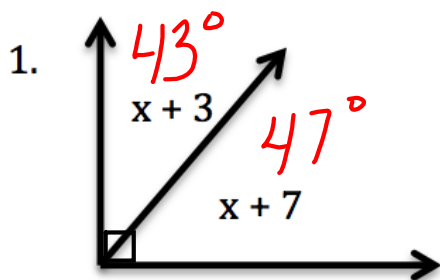
Example: Find the value of x in the following examples.



Complementary Angles  
 =  $90^\circ$

$$\begin{array}{r}
 \underline{30 + x + 2 = 90} \\
 \cancel{x + 32 = 90} \\
 \underline{\phantom{x + 32 = 90} - 32 \quad - 32} \\
 x = 58
 \end{array}$$

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$$x+3+x+7=90$$

$$2x+10=90$$

$$\begin{array}{r} -10 \\ -10 \end{array}$$

$$\begin{array}{r} 2x = 80 \\ \hline 2 \end{array}$$

$$x=40$$

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