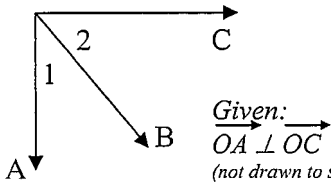


Name _____

8R - Chapter 7/8
Angles & Parallel lines

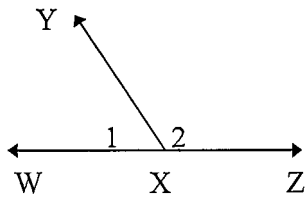


1) $m\angle BOC = 46^\circ$
find $m\angle BOA$

2) $\angle 1 = 3x + 5$
 $\angle 2 = 2x - 15$
find $m\angle 1$

3) What is the complement of a 42° angle? _____

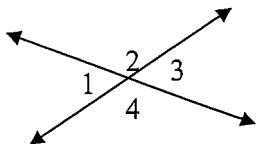
4) What does it mean when angles are complementary?



5) $m\angle 1 = 62^\circ$
find $m\angle 2$

6) $m\angle 2 = 4x + 2$
 $m\angle 1 = x + 8$
Solve for x.

7) How are supplementary angles and complementary angles different?



8) Name the vertical angle pairs.

9) $m\angle 4 = 125^\circ$
Find $m\angle 2$ _____
Find $m\angle 1$ _____

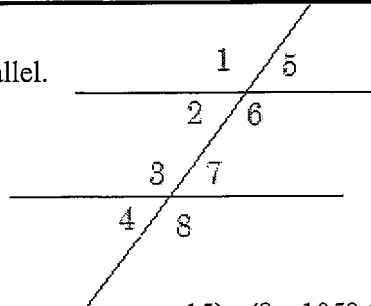
10) $\angle 3 = 6x - 12$
 $\angle 1 = 3x + 21$
Find $m\angle 1$

11. What is the complement of 58° ?

12. What is the supplement of 36° ?

13. What is the complement of $7x$?

The following two lines are parallel.
Use the diagrams to answer
the following questions.



14) $\angle 2 = 70^\circ$, find $\angle 7$ _____

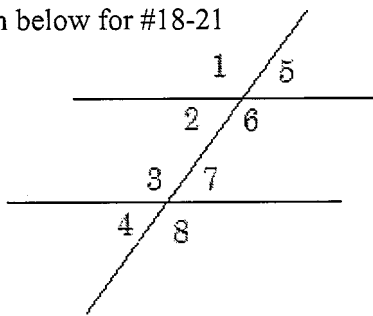
15) $\angle 8 = 105^\circ$ find $\angle 3$ _____

16) $\angle 6 = 145^\circ$, find $\angle 7$ _____

Name the relationship _____

17) Name all the angles that are supplementary to $\angle 2$. _____

Use the diagram below for #18-21



$$\angle 4 = 5x$$

$$\angle 7 = 2x + 40$$

$$\angle 1 = 4x - 10$$

18) $\angle 7 = 3x + 10$

19) $\angle 5 = 3x + 20$

20) $\angle 8 = x + 80$

Solve for x .

Find $m\angle 3$.

Find $m\angle 7$.

21) $m\angle 5 = 2x$ and $m\angle 6 = 3x$ What equation would you write in order to solve the problem? Explain why.
