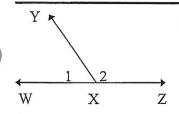


m∠BOC = 46°
find m∠BOA

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

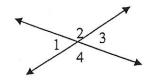
- 3) What is the complement of a 42° angle?
- 4) What does it mean when angles are complementary?



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?

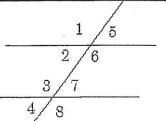


8) Name the vertical angle pairs.

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 $\angle 1$

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 $\angle 7$

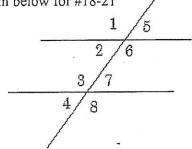
15)
$$\angle 8 = 105^{\circ} find \angle 3$$

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

Name the relationship ___

17) Name all the angles that are supplementary to ∠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∠7

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