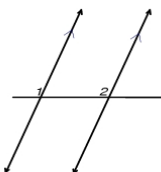


### Parallel Lines Cut By a Transversal

~ 1 ~

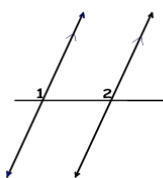
1. What is the relationship between  $\angle 1$  and  $\angle 2$ ?



- A. Alternate Interior Angles
- B. Alternate Exterior Angles
- C. Corresponding Angles
- D. Same-Side Interior Angles

*Solve for the unknown angles. (2-6)*

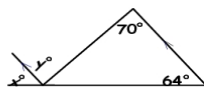
2.



$$m\angle 1 = 110^\circ$$

$$m\angle 2 = ?$$

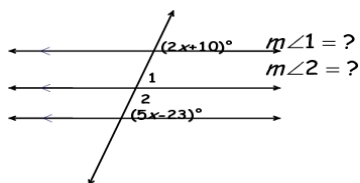
3.



$$x = ?$$

$$y = ?$$

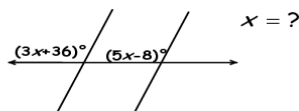
4.



$$m\angle 1 = ?$$

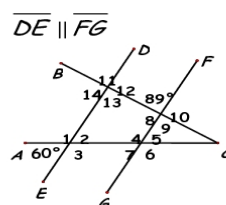
$$m\angle 2 = ?$$

5.



$$x = ?$$

6.



$$m\angle 1 = ? \quad m\angle 8 = ?$$

$$m\angle 2 = ? \quad m\angle 9 = ?$$

$$m\angle 3 = ? \quad m\angle 10 = ?$$

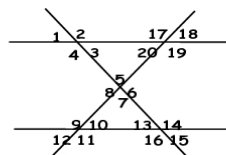
$$m\angle 4 = ? \quad m\angle 11 = ?$$

$$m\angle 5 = ? \quad m\angle 12 = ?$$

$$m\angle 6 = ? \quad m\angle 13 = ?$$

$$m\angle 7 = ? \quad m\angle 14 = ?$$

7.



$a \parallel b$  and  $d$  and  $c$  are transversals through  $a$  and  $b$ , if  $m\angle 1 = 43^\circ$  and  $m\angle 5 = 27^\circ$  then what is  $m\angle 12$ ?

- A.  $43^\circ$
- B.  $110^\circ$
- C.  $27^\circ$
- D.  $153^\circ$

