

PARALLEL LINES AND A TRANSVERSAL REVIEW

NAME: _____

DATE: _____

Name the relationship between the two angles.

1) $\angle 1$ & $\angle 5$ _____

2) $\angle 2$ & $\angle 7$ _____

3) $\angle 3$ & $\angle 6$ _____

4) $\angle 5$ & $\angle 8$ _____

5) $\angle 4$ & $\angle 6$ _____

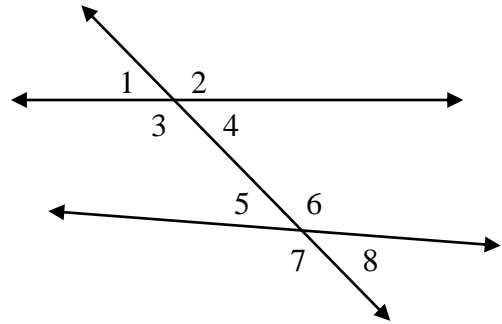
6) $\angle 8$ & $\angle 4$ _____

7) $\angle 6$ & $\angle 2$ _____

8) $\angle 1$ & $\angle 6$ _____

9) $\angle 3$ & $\angle 5$ _____

10) $\angle 8$ & $\angle 1$ _____



Line l and m are parallel. State the theorem or postulate that justifies the statement.

11) $\angle 3 \cong \angle 7$

If _____,

then _____.

12) $\angle 1 \cong \angle 8$

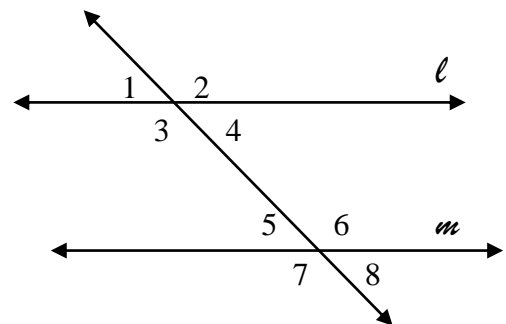
If _____,

then _____.

13) $\angle 4 + \angle 6 = 180^\circ$

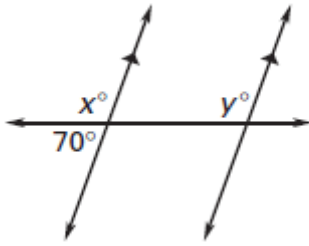
If _____,

then _____.



Find the value of x and y.

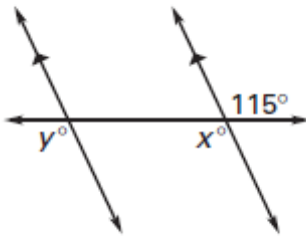
14)



x = _____

y = _____

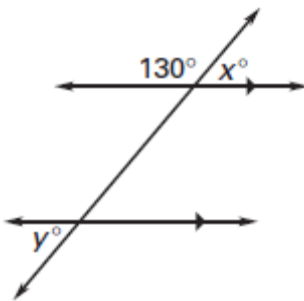
15)



x = _____

y = _____

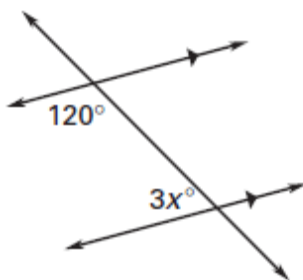
16)



x = _____

y = _____

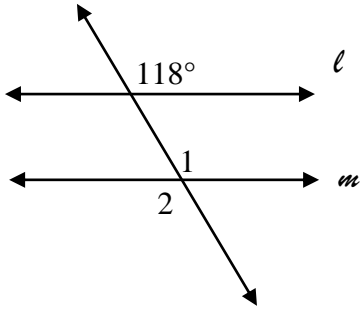
17)



x = _____

SECTION 2: Copy each diagram in your text and write the reasons for each answer.

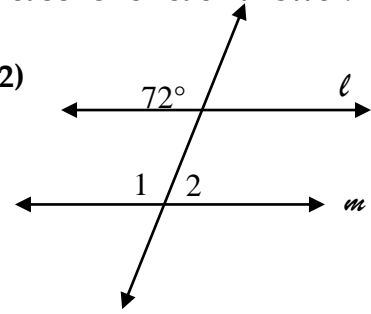
1)



$m\angle 1 =$ _____

$m\angle 2 =$ _____

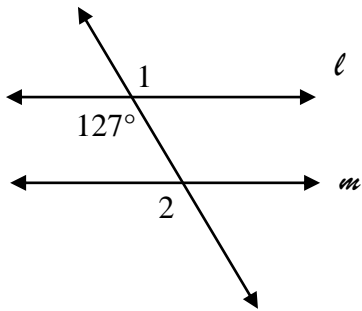
2)



$m\angle 1 =$ _____

$m\angle 2 =$ _____

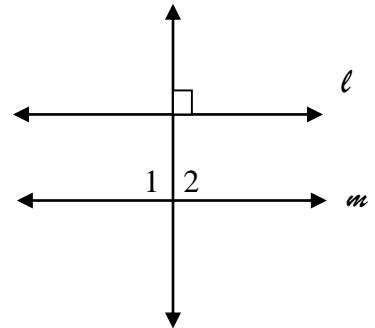
3)



$m\angle 1 =$ _____

$m\angle 2 =$ _____

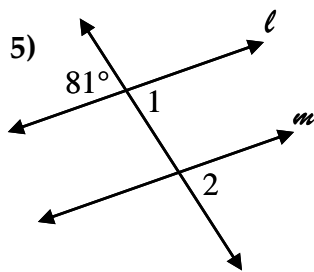
4)



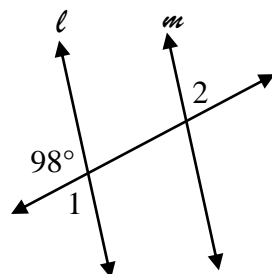
$m\angle 1 =$ _____

$m\angle 2 =$ _____

5)



6)



$$m\angle 1 = \underline{\hspace{2cm}}$$

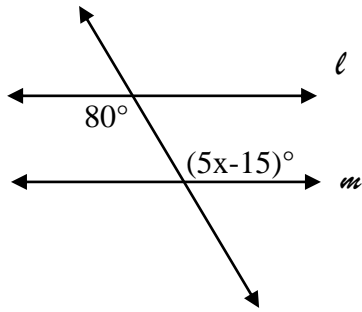
$$m\angle 2 = \underline{\hspace{2cm}}$$

$$m\angle 1 = \underline{\hspace{2cm}}$$

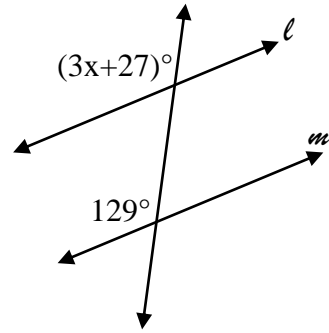
$$m\angle 2 = \underline{\hspace{2cm}}$$

Line l and m are parallel. Find the value of x .

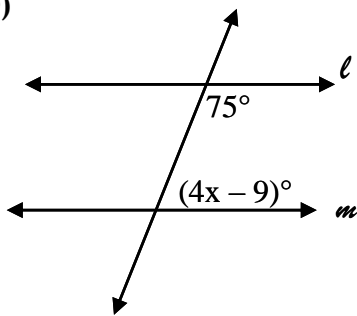
7)



8)



9)



10)

