

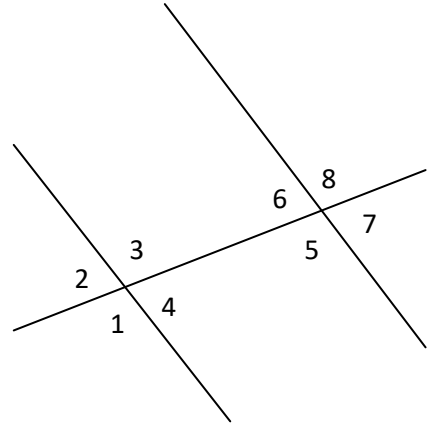
Assignment #14

Parallels and Transversals

Name: _____ Date: _____ Period: _____

Determine the relationship between each pair of angles

- 1. $\angle 3$ & $\angle 5$ _____
- 2. $\angle 5$ & $\angle 8$ _____
- 3. $\angle 2$ & $\angle 6$ _____
- 4. $\angle 4$ & $\angle 5$ _____
- 5. $\angle 4$ & $\angle 6$ _____
- 6. $\angle 3$ & $\angle 1$ _____
- 7. $\angle 6$ & $\angle 7$ _____
- 8. $\angle 1$ & $\angle 8$ _____
- 9. $\angle 4$ & $\angle 7$ _____
- 10. $\angle 2$ & $\angle 7$ _____



Use the given angle to find all the missing angles

11. $m\angle 6 = 78^\circ$

$\angle 1$ _____ $\angle 2$ _____

$\angle 3$ _____ $\angle 4$ _____

$\angle 5$ _____ $\angle 6$ _____

$\angle 7$ _____ $\angle 8$ _____

12. $m\angle 1 = 124^\circ$

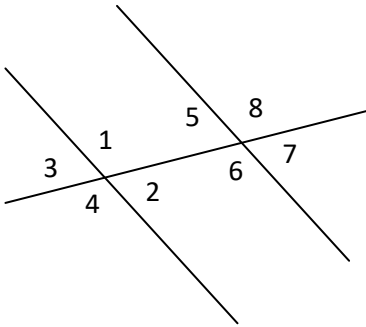
$\angle 1$ _____ $\angle 2$ _____

$\angle 3$ _____ $\angle 4$ _____

$\angle 5$ _____ $\angle 6$ _____

$\angle 7$ _____ $\angle 8$ _____

13. If $m\angle 5 = 2x + 8$ and $m\angle 6 = 3x + 2$, find all angles



$m\angle 1$ _____

$m\angle 2$ _____

$m\angle 3$ _____

$m\angle 4$ _____

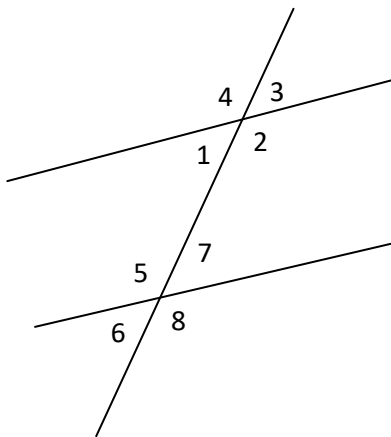
$m\angle 5$ _____

$m\angle 6$ _____

$m\angle 7$ _____

$m\angle 8$ _____

14. If $m\angle 6 = 4x - 5$ and $m\angle 3 = 3x + 15$



$m\angle 1$ _____

$m\angle 2$ _____

$m\angle 3$ _____

$m\angle 4$ _____

$m\angle 5$ _____

$m\angle 6$ _____

$m\angle 7$ _____

$m\angle 8$ _____