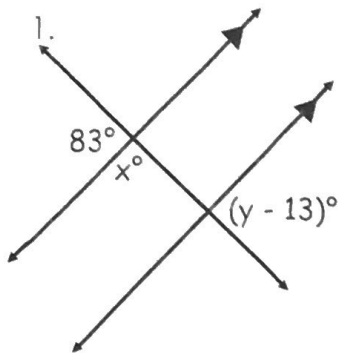


Name: _____

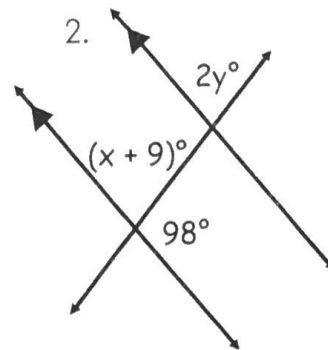
Date: _____

Day 3 - Parallel Lines Practice

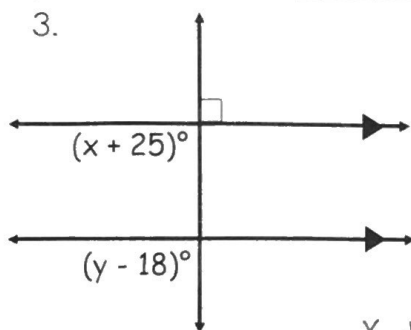
Name the relationship you would use to solve for variable(s). Then solve for each variable.



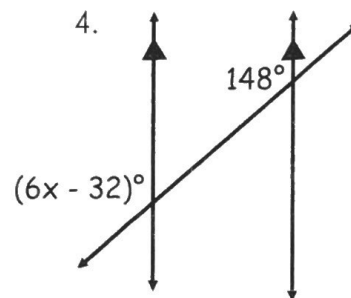
linear pair $83 + x = 180$ $x = 97^\circ$
 alt. exterior $83 = y - 13$ $y = 96^\circ$



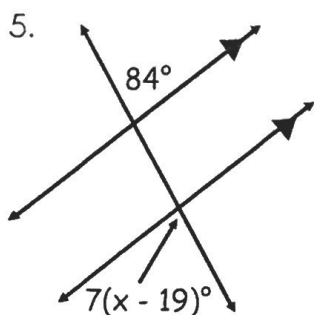
linear pair $98 + x + 9 = 180$ $x = 73^\circ$
 Corresponding $x + 9 = 2y$ $y = 41^\circ$
 $73 + 9 = 2y$



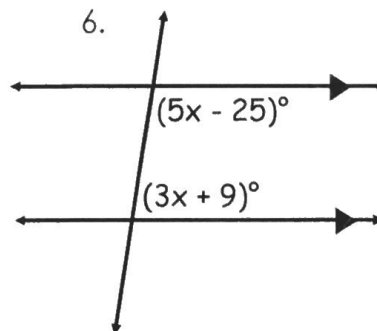
Vertical $90 = x + 25$
 $65 = x$
 Corresponding $x + 25 = y - 18$
 $65 + 25 = y - 18$
 $90 = y - 18$
 $108 = y$



Corresponding $6x - 32 = 148$
 $6x = 180$
 $x = 30^\circ$

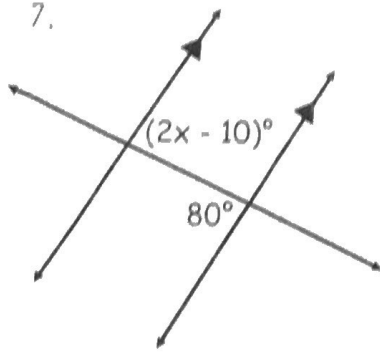


alt. Exterior $84 = 7(x - 19)$
 $84 = 7x - 133$
 $217 = 7x$
 $x = 31^\circ$



Same side interior $5x - 25 + 3x + 9 = 180$
 $8x - 16 = 180$
 $8x = 196$
 $x = 24.5$

7.



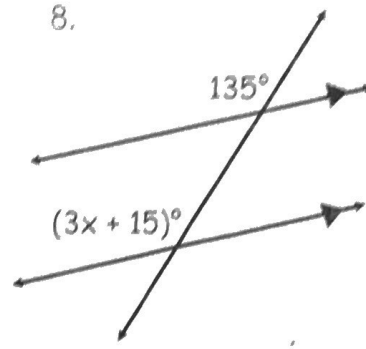
Alt. Interior

$$80 = 2x - 10$$

$$90 = 2x$$

$$45 = x$$

8.



Corresponding

$$3x + 15 = 135$$

$$3x = 120$$

$$x = 40$$

In the figure, $m\angle 2 = 70$. Find the measure of each angle.

1. $\angle 3 = 70^\circ$

2. $\angle 5 = 110^\circ$

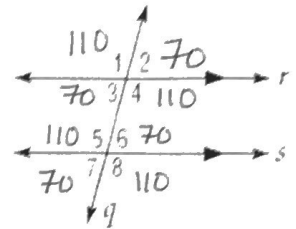
$$180 - 70 = 110$$

3. $\angle 8 = 110^\circ$

4. $\angle 1 = 110^\circ$

5. $\angle 4 = 110^\circ$

6. $\angle 6 = 70^\circ$



In the figure, $m\angle 9 = 80$ and $m\angle 5 = 68$. Find the measure of each angle.

7. $\angle 12 = 100^\circ$

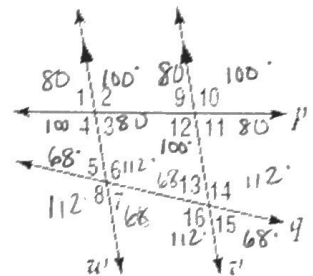
8. $\angle 1 = 80^\circ$

9. $\angle 4 = 100^\circ$

10. $\angle 3 = 80^\circ$

11. $\angle 7 = 68^\circ$

12. $\angle 16 = 112^\circ$



In the figure, $m\angle 3 = 75$ and $m\angle 10 = 115$. Find the measure of each angle.

13. $\angle 2 = 115^\circ$

14. $\angle 5 = 115^\circ$

15. $\angle 7 = 105^\circ$

16. $\angle 15 = 105^\circ$

17. $\angle 14 = 65^\circ$

18. $\angle 9 = 65^\circ$

