Integrated Math 2   Name _____

Directions: Solve each of the following using substitution, elimination, or the equal values method. FIND X AND Y!! SHOW ALL WORK ON A SEPARATE SHEET OF PAPER!! *Express your final answer as (x, y) coordinates.*

1. $x + y = -4$
    $-x + 2y = 13$

2. $12x + 9y = 21$
    $2x - 9y = 35$

3. $3x - 2y = -2$
    $5x - 2y = 10$

4. $2x + 3y = 0$
    $6x - 5y = -28$

5. $2x + 3y = 10$
    $9x - 12y = -6$

6. $2x + 5y = 1$
    $2x - y = 19$

7. $x = y + 4$
    $3x + 7y = -18$

8. $y = 3 + x$
    $3x + 8y = 46$

9. $x = 5 + 2y$
    $4x + y = 2$

10. $y = 6x + 3$
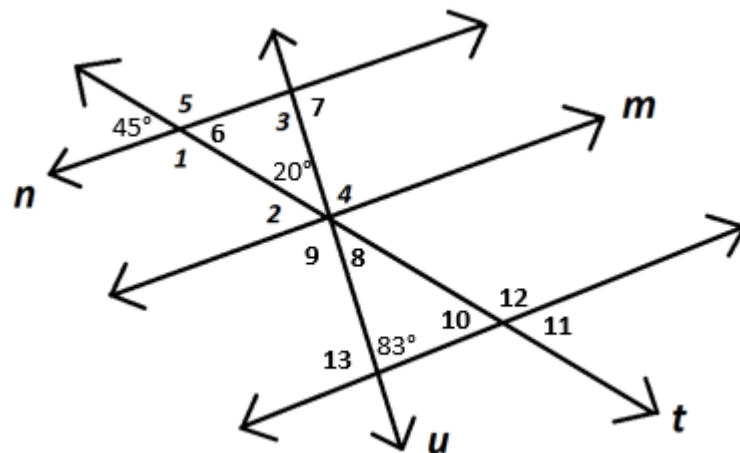 $2x + 6y = -20$

11. $y = x - 1$
     $y = -2x + 5$

12. $y = 2x - 3$
     $y = 15 - x$

13. $y = 3x + 11$
     $-x + 3 = y$

14. $y = 3 - 2x$
     $2x + 1 = y$

CHECK ANSWERS FOR X *AND* Y:

#1 - 6	#7 - 10	#11-14
-7 -3 -3 -3 2 2	-3 -3 -2 -1	-2 ½ 1 2
2 3 4 6 8 10	1 1 2 5	2 5 6 9

Solve for the given angles AND justify each answer using vocabulary (such as alternate interior, corresponding, etc.)

Notes: $n \parallel m \parallel l$; You may solve for the angles out of order.

CHECK ANSWERS: 20   45   45   65   77   77   97   103   115   115   115   135   135

∠1 = _____   reason:_____

∠2 = _____   reason:_____

∠3 = _____   reason:_____

∠4 = _____   reason:_____

∠5 = _____   reason:_____

∠6 = _____   reason:_____

∠7 = _____   reason:_____

∠8 = _____   reason:_____

∠9 = _____   reason:_____

∠10 = _____   reason:_____

∠11 = _____   reason:_____

∠12 = _____   reason:_____

∠13 = _____   reason:_____