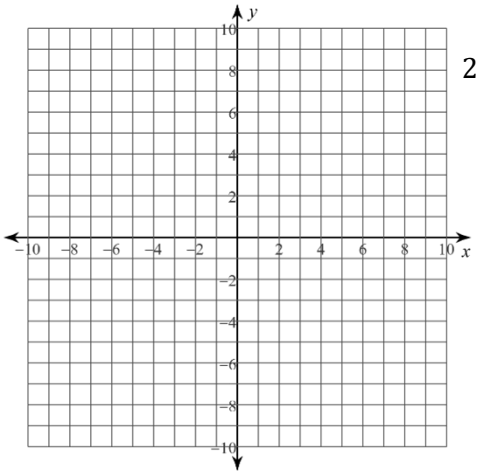
Name: _____

6.1.D1 – SOLVING LINEAR SYSTEMS

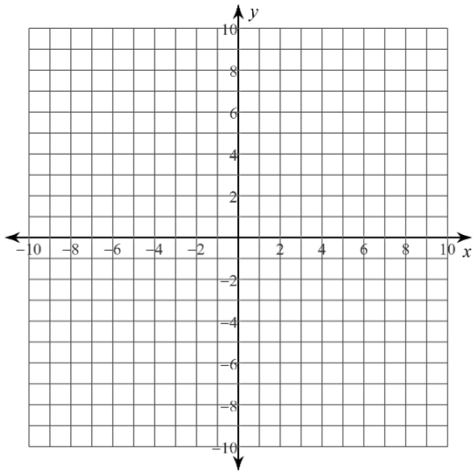
Past due on: _____ Period: _____

Solve the system of linear equations graphically. Write your solution as an ordered pair (x, y). *Refer to the 6.1 example "Predicting the Solution of a System Using Graphing" in the Chapter 6 Summary.*

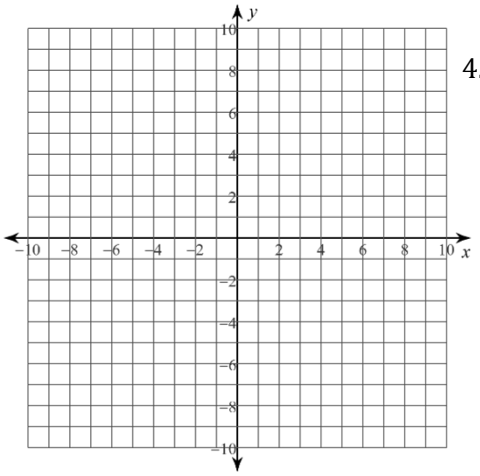
1. $y = \frac{7}{2}x - 5$
   $y = \frac{1}{2}x + 1$



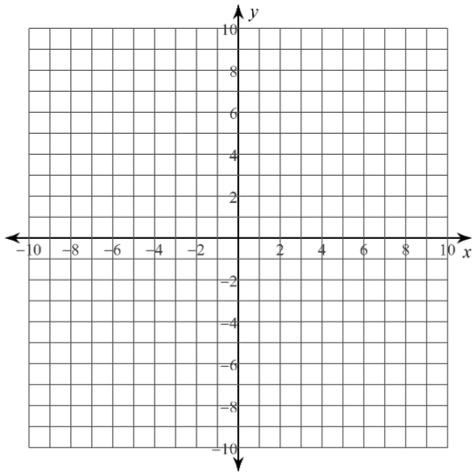
2. $y = -\frac{6}{5}x - 2$
   $y = \frac{1}{5}x - 9$



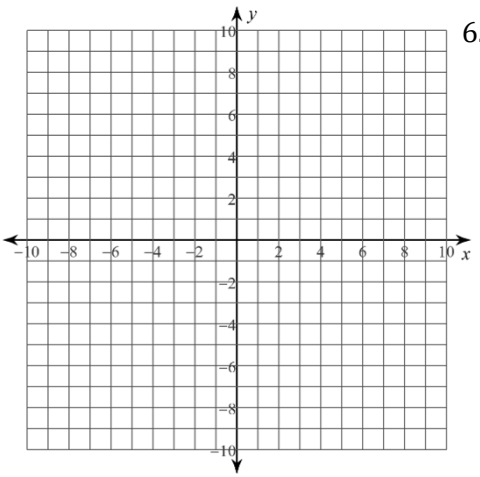
3. $y = \frac{6}{7}x + 1$
   $y = \frac{1}{7}x - 4$



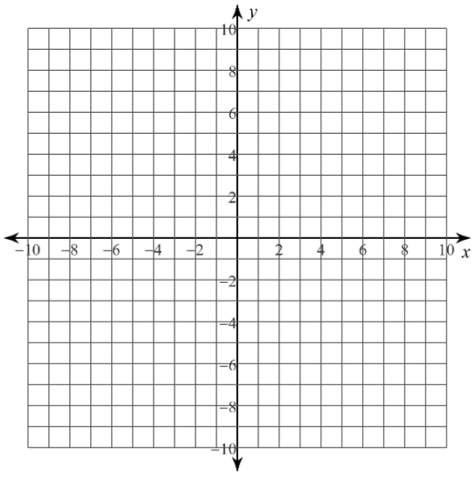
4. $y = -\frac{7}{9}x + 4$
   $y = \frac{1}{3}x - 6$



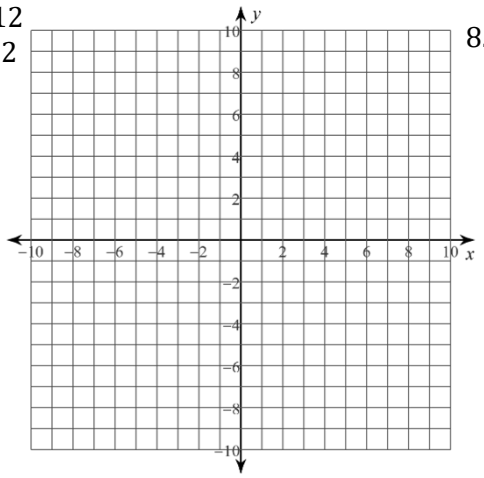
5. $3x - y = 9$
   $6x + 2y = 6$



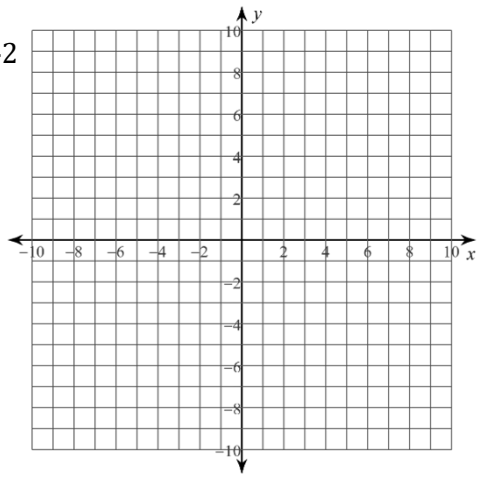
6. $3x - y = -1$
   $2x + y = 6$



7. $2x + 3y = -12$
$10x + 3y = 12$

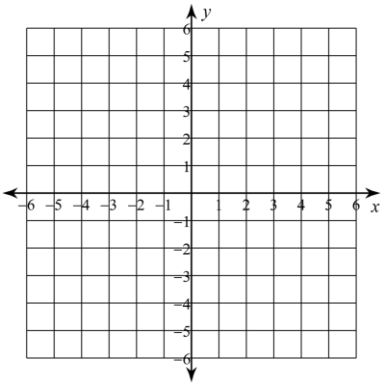


8. $x + 7y = 56$
$13x - 7y = 42$

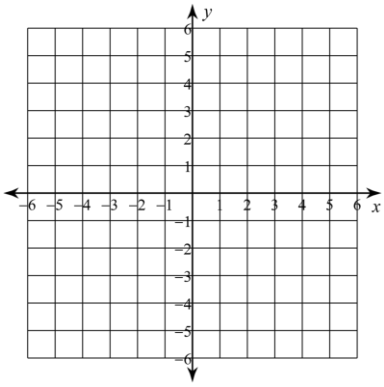


Graph the line described. Then write the equation of a line that passes through the given point and has the given slope. Then write the equation in slope-intercept form.

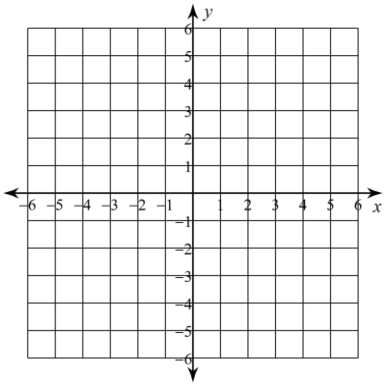
9. $(-1, 2); m = 3$



10. $(-2, -4); m = \frac{5}{2}$



11. $(-3, 5); m = -\frac{3}{4}$



Solve each equation.

12. $5x + 9 = 3x - 1$

13. $1 - 6x = -23 - 12x$

14. $21 - 8y = 3y - 12$

15. $-11y - 3 = -19 - 7y$