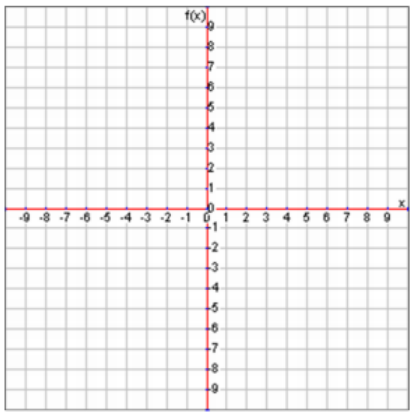
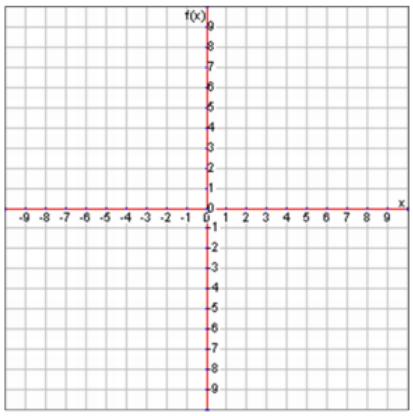
Review of the Three Forms of Linear Equations Name: _____

Graph the following linear equations using slope-intercept form.

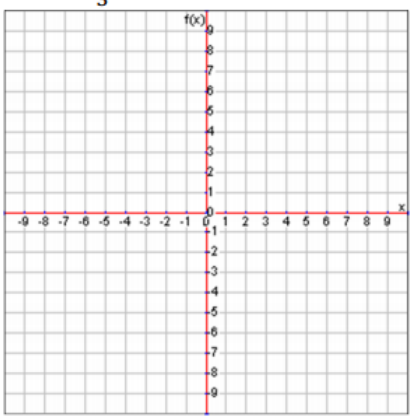
1. $y = 2x + 1$



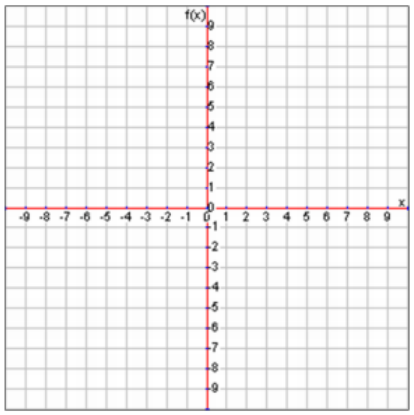
2. $y = 3x - 4$



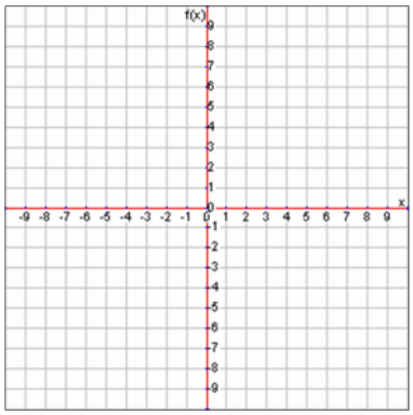
3. $y = \frac{2}{3}x + 5$



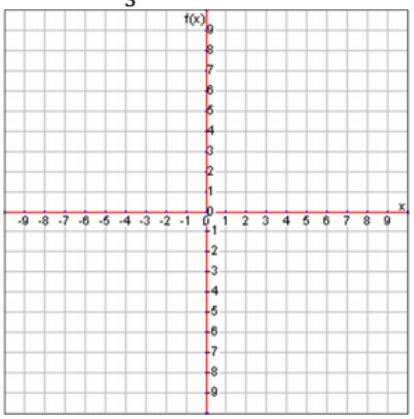
4. $y = 7$



5. $y = -3x - 2$



6. $y = -\frac{1}{3}x + 5$



Write the slope-intercept form of the equation of each line.

1) $3x - 2y = -16$

2) $13x - 11y = -12$

3) $9x - 7y = -7$

4) $x - 3y = 6$

5) $y - 1 = \frac{2}{5}(x + 10)$

6) $y + 4 = -14(x - \frac{3}{7})$

Give an equation in point-slope form that satisfies the given information.

1. Passes through (2, 3) and has slope of $-\frac{1}{2}$.

2. Passes through (-1, 4) and m = 4.

3. Passes through (0, 2) and has slope of –5/3.

4. Passes through (4, -2) and m = 0.

Give the slope of each of the following lines. Name a point on each line.

7. $y + 2 = 2/3 (x - 4)$

8. $y - 3 = \frac{1}{2} (x - 3)$

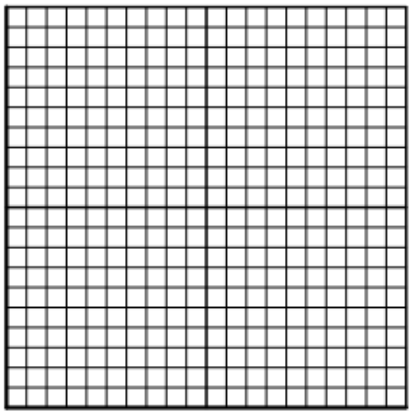
9. $y + 5 = \frac{1}{4} (x + 2)$

10. $Y = 2 (x + 3)$

Graph each of the following lines by first giving the point and the slope.

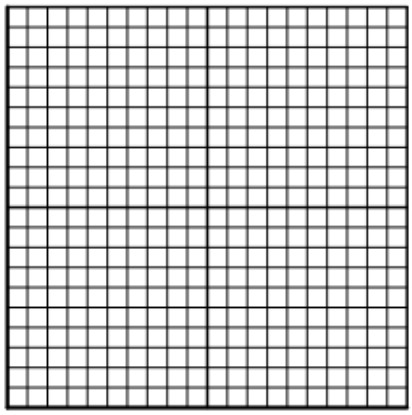
13. $y + 2 = 1/3 (x + 1)$

Point _____ Slope _____



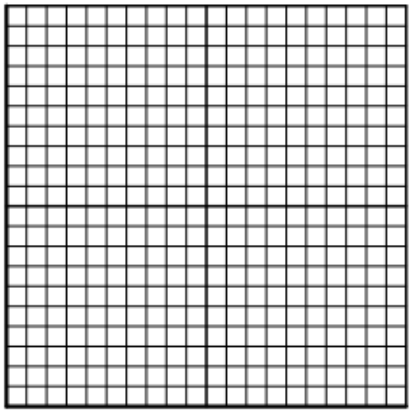
14. $y + 1 = -\frac{1}{2} (x - 3)$

Point _____ Slope _____



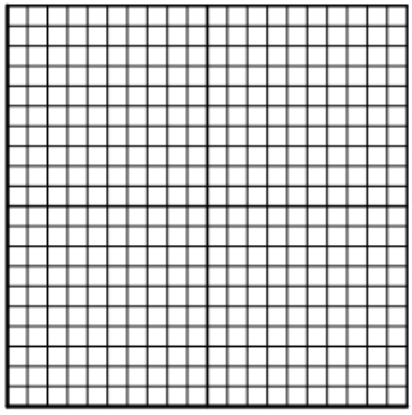
15. $y - 3 = -2 (x - 4)$

Point _____ Slope _____



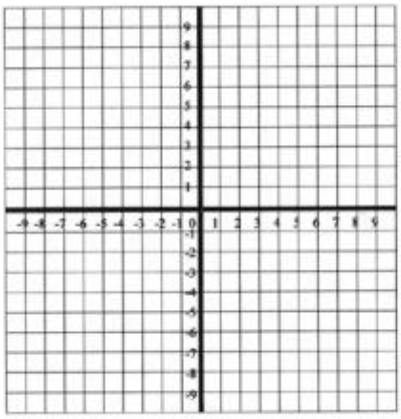
16. $y - 5 = 3 x$

Point _____ Slope _____



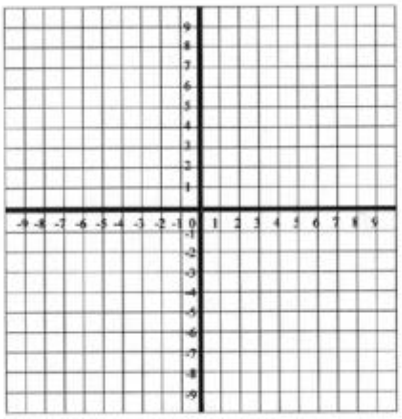
Find the x- and y-intercepts of each equation and then graph the line.

1) x + 2y = 8



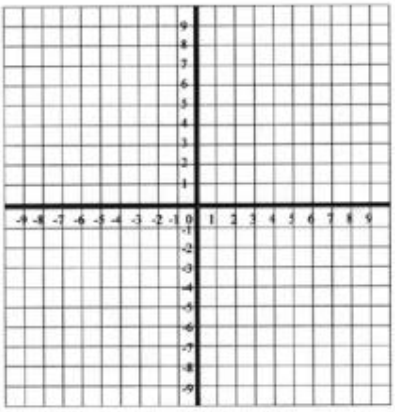
x-int = _____ y-int = _____

2) 3x – y = 9



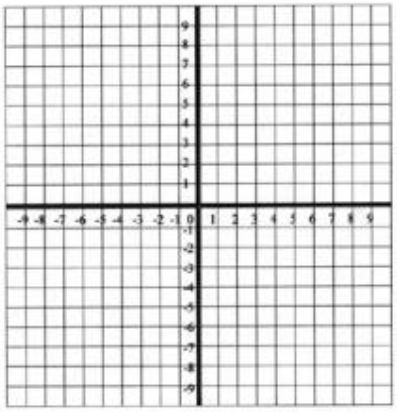
x-int = _____ y-int = _____

5) -3x + y = 6



x-int = _____ y-int = _____

6) 5x – 3y = 15



x-int = _____ y-int = _____

Write each equation in standard form using integers.

7) $y = 3x + 1$

8) $y = 4x - 7$

9) $y = \frac{1}{2}x - 3$

10) $y = \frac{2}{3}x + 5$

11) $y = -\frac{3}{4}x - 4$

12) $y = -\frac{4}{5}x - 7$