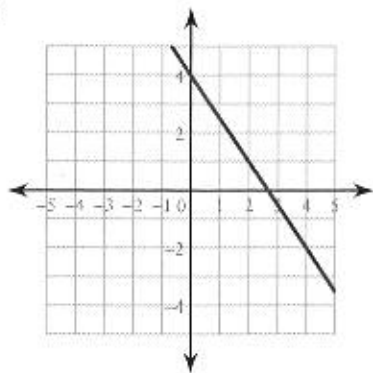


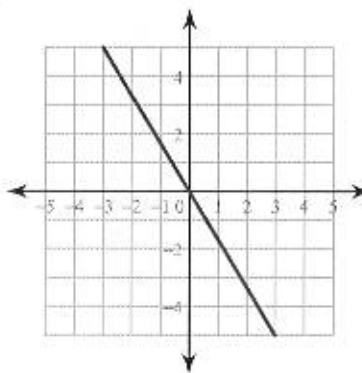
Writing Linear Equations

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

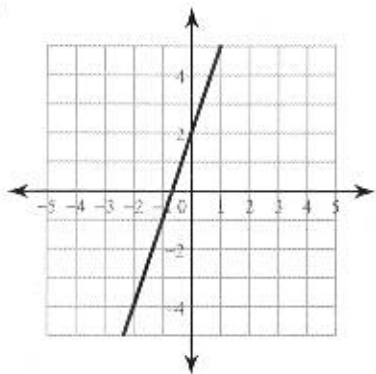
1)



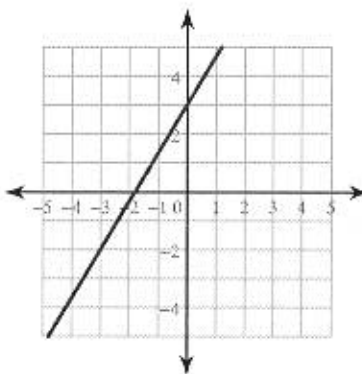
2)



3)



4)



Writing Equations given two points

Date _____ Period _____

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Write the slope-intercept form of the equation of each line given the slope and y-intercept.

1) Slope = 4, y-intercept = 3

2) Slope = -1, y-intercept = 1

Write the slope-intercept form of the equation of the line through the given point with the given slope.

3) through: (5, 1), slope = $-\frac{2}{5}$

4) through: (2, -4), slope = $-\frac{7}{2}$

Write the slope-intercept form of the equation of the line through the given points.

5) through: (2, 0) and (4, 4)

6) through: (0, -4) and (-3, -1)

7) through: (1, 3) and (0, -4)

8) through: (2, 3) and (0, -3)

9) through: (0, 4) and (-5, 0)

10) through: (0, 4) and (-5, 5)

11) through: (0, -3) and (-5, -5)

12) through: (0, 5) and (4, -4)

13) through: (3, 4) and (0, -2)

14) through: (0, -1) and (-4, 5)

Writing Linear Equations

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) $6x + 5y = -15$

6) $4x - y = 1$

7) $11x - 4y = 32$

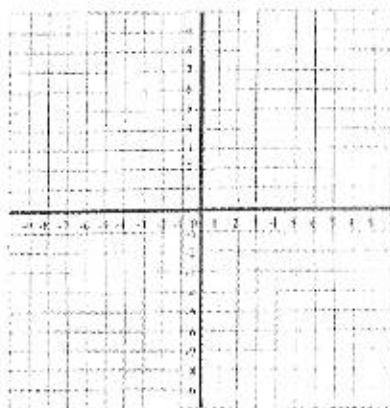
8) $11x - 6y = -48$

Standard Form of a Linear Equation
Worksheet

Name _____
Date _____ Block _____

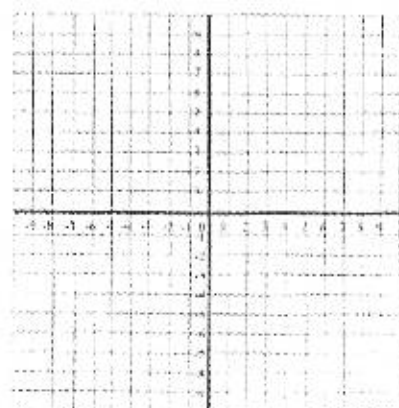
Find the x- and y-intercepts of each equation and then graph the line.

1) $x + 2y = 8$



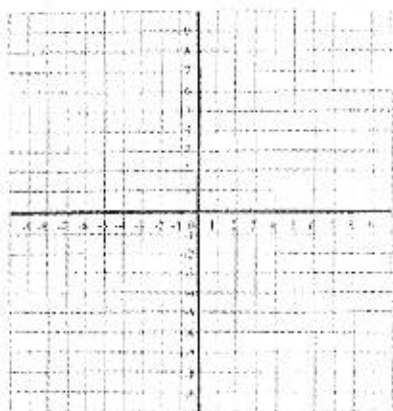
x-int = _____ y-int = _____

2) $3x - y = 9$



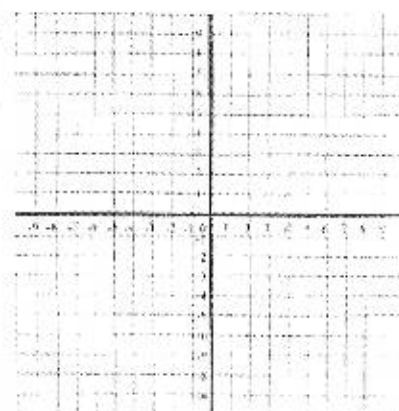
x-int = _____ y-int = _____

3) $-5x + 6y = 30$



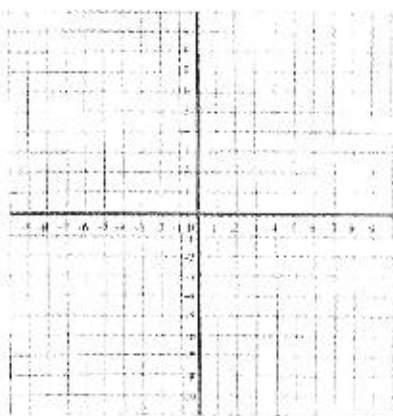
x-int = _____ y-int = _____

4) $-6x + 3y = -9$



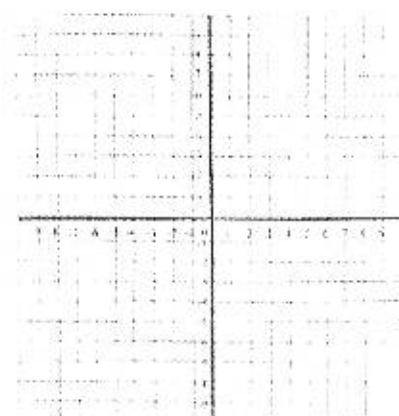
x-int = _____ y-int = _____

5) $-3x + y = 6$



x-int = _____ y-int = _____

6) $5x - 3y = 15$



x-int = _____ y-int = _____

Point-Slope Form (Practice Worksheet)

Write an equation in point-slope form of the line that passes through the given point and has the given slope.

1 (2, 7); $m = -4$

2 (12, 5); $m = -3$

3 (4, -5); $m = 6$

4 (-6, -2); $m = 3$

5 (7, -6); $m = \frac{1}{2}$

6 (-8, 2); $m = -\frac{3}{4}$

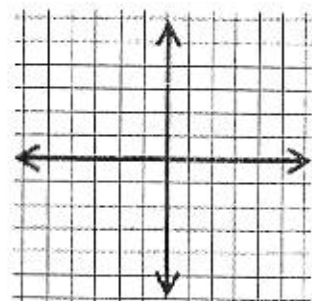
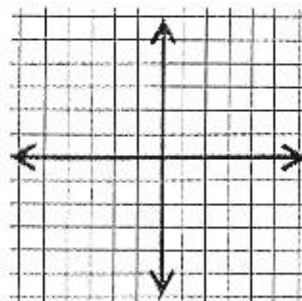
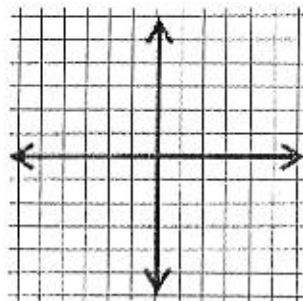
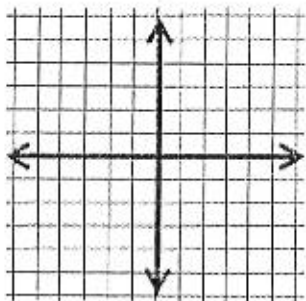
Graph the equations below.

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

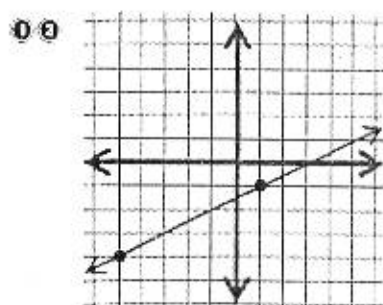
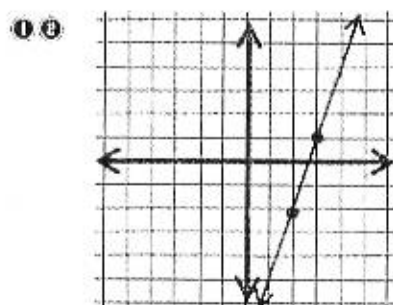
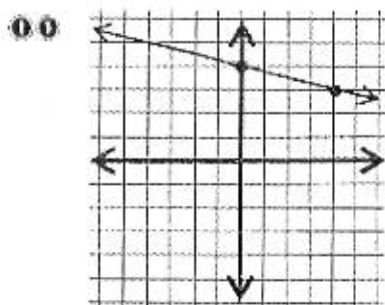
8 $y + 3 = -2(x - 2)$

9 $y - 1 = 3(x + 6)$

10 $y + 4 = \frac{5}{2}(x - 3)$



Write an equation in point-slope form of the line graphed below. (Use the right hand point)



Write an equation in point-slope form of the line that passes through the two points given. Use the first point to write the equation.

14 (4, 7) and (5, 1)

15 (9, -2) and (-3, 2)

16 (3, -8) and 7(-2)