Name_____

Writing Linear Equations

Date_____ Period_____

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

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

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

3) $9x - 7y = -7$
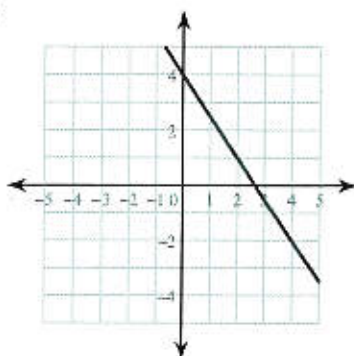
4) $x - 3y = 6$

5) $6x + 5y = -15$
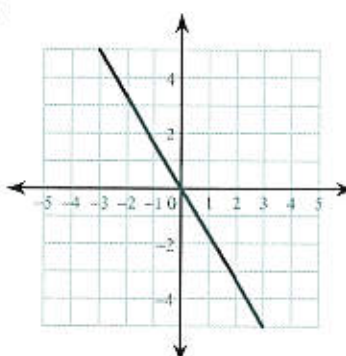
6) $4x - y = 1$

7) $11x - 4y = 32$

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

Name_____

Writing Linear Equations

Date_____ Period_____

Write the slope-intercept form of the equation of each line.
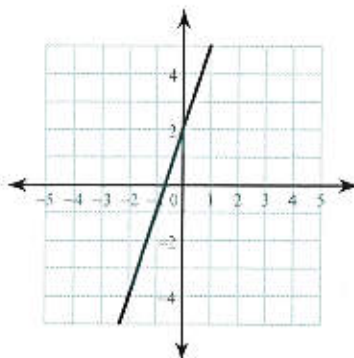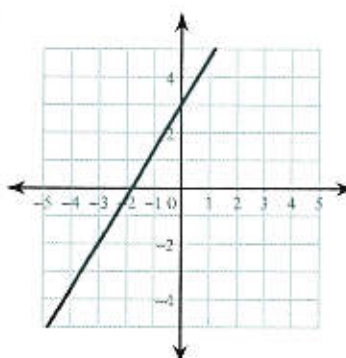
1)

2)

3)

4)

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

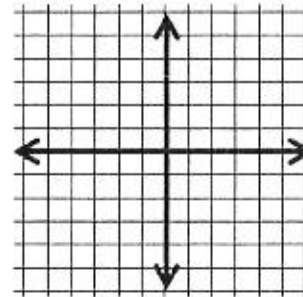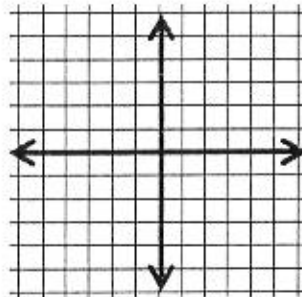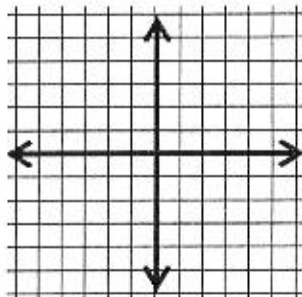③ (4, -5); m = 6

④ (-6, -2); m = 3

⑤ (7, -6); m = $\frac{1}{2}$

⑥ (-8, 2); m = $-\frac{3}{4}$
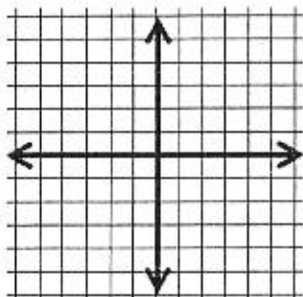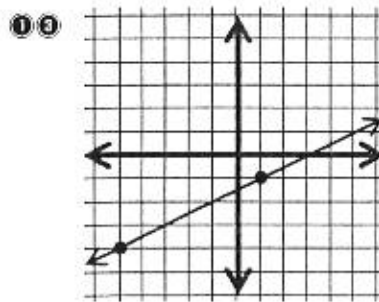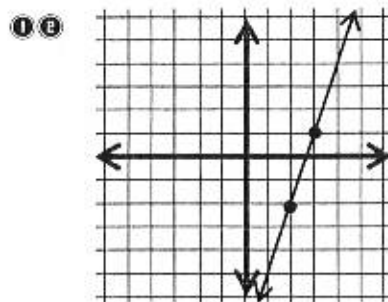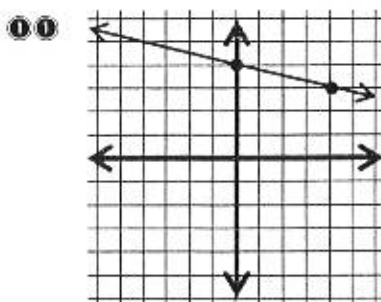
Graph the equations below.

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)

⑪

⑫

⑬

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.
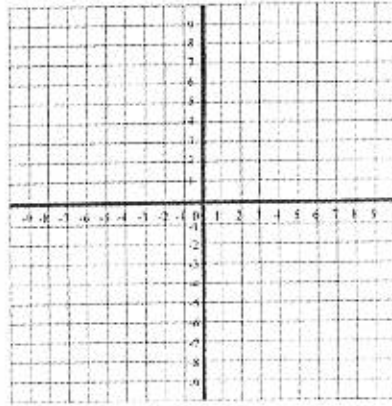
⑭ (4,7) and (5, 1)

⑮ (9, -2) and (-3, 2)

⑯ (3, -8) and 7(-2)

Standard Form of a Linear Equation
Worksheet

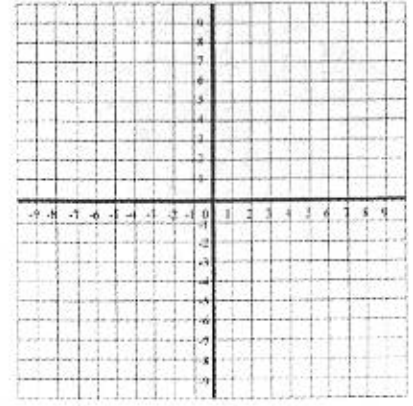Name _____

Date _____ Block _____

Find the x- and y-intercepts of each equation and then graph the line.
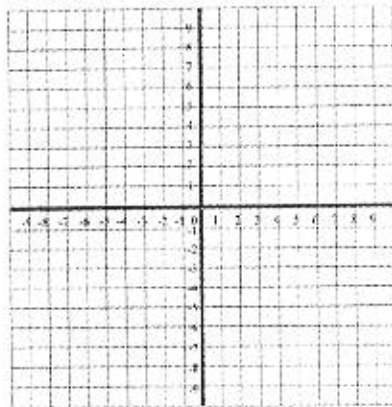
1) $x + 2y = 8$

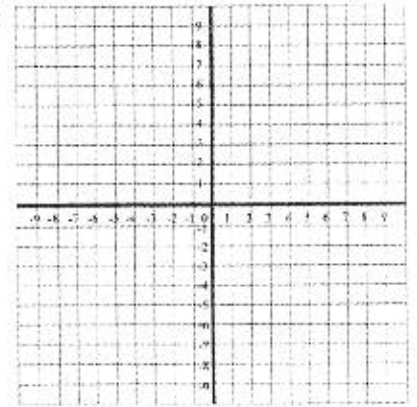x-int = _____ y-int = _____

2) $3x - y = 9$

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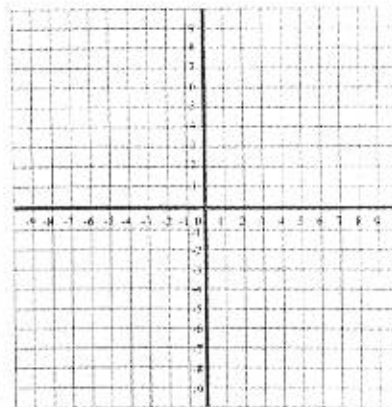
3) $-5x + 6y = 30$
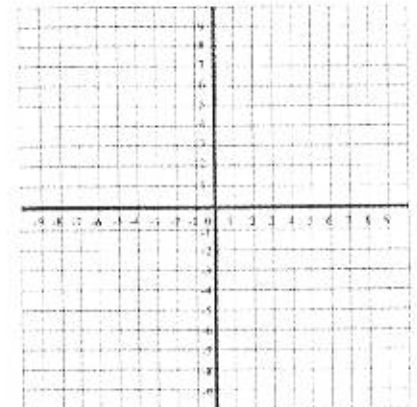
x-int = _____ y-int = _____

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

x-int = _____ y-int = _____

5) $-3x + y = 6$

x-int = _____ y-int = _____

6) $5x - 3y = 15$

x-int = _____ y-int = _____