Name:

msw15

Period: _____

Review – Graphing Linear Equations and Finding Slope

Graph both linear equations on the coordinate plane on the right. Make sure you use an input/output table with at least 3 ordered pairs for each.

1)
$$y = -x - 1$$

$$\frac{x}{y^{2}x - 1} - \frac{y}{0}$$

$$\frac{-1}{-1} - \frac{-(-1) - 1}{-1} - \frac{0}{-1}$$

$$\frac{-1}{-1} - \frac{-(-1) - 1}{-1} - \frac{1}{-1}$$

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

$$\frac{x}{+2} + 2$$

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

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

$$\frac{1}{3}(-3) + 2$$

$$\frac$$

Graph both of the equations on the coordinate plane on the right. You may make an input/output table if you wish.

- 3) y = -4
- 4) $x = \frac{1}{2}$

5) <i>Slope-intercept form</i> is	s an equation writte	n in the form $y = m \times \frac{4}{5}$, where <i>m</i>
represents the lines	slope	and b represents the line's	y-intercept.

Solve each equation for y. Then determine the slope and y-intercept of the equation.

6)
$$\frac{2y = -4x + 2}{z}$$
$$y = -2x + 1$$
$$m = \underline{-2} \qquad b = \underline{(0, 1)}$$
$$8) \underbrace{\frac{52}{2}}_{z} y = x \cdot \underbrace{\frac{5}{2}}_{z}$$
$$y = \underbrace{\frac{5}{2}}_{x}$$

 $m = \underbrace{\frac{5}{2}}_{b=(0,0)}$

$$(1) \quad x \quad 3y = 0$$

$$-x \quad -y = -x + 9$$

$$-3y = -x + 9$$

$$-3y = -x + 9$$

$$-3x = \frac{1}{3} \quad y = -3$$

$$b = (0, -3)$$

$$(0, -3)$$

$$(1) \quad (1) = -3$$

$$(0, -3)$$

$$(2) \quad (-3) = -3$$

$$(3) \quad (-3) = -3$$

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Graph each line using the given information about the slope and y-intercept.

10) m = -2 and b = 0





x-3y=9

7)



Graph each equation using the slope and the *y*-intercept only.

12) Graph m = -2 and b = 0





Identify the x-intercept and the y-intercept of the graph.



Find the x-intercept and the y-intercept of each equation, and then graph it.

17) -4x + 3y = -12

x-intercept : (0, -4)y-intercept : (0, -4)

18) 5x - 15y = 30

x-intercept : (0, 0) y-intercept : (0, -2)

Find the slope of a line that passes through the given points. 19) (-2, -2) and (3, -1)20) (-3, 1) and (-1, 5)

 $m = \frac{-1+2}{3-2}$ $m = \frac{5 - 1}{-1 + 13} = \frac{4}{2} = \sqrt{2}$





21) (-3, 12) and (-3, 0) $\frac{0-12}{-3-3} = \frac{-12}{0}$ Undefined

Solve the equation.

22)
$$\frac{3}{4}c+3-\frac{1}{4}c=7$$

 $\frac{2}{7}c+3=7$
 $\frac{1}{2}c+3=7$
 $\frac{1}{2}c+3=7$
 $\frac{1}{2}c+3=7$
 $\frac{1}{2}c+3=7$
 $\frac{1}{2}c+3=7$
 $\frac{1}{2}c=9$.2
 $\boxed{23}$ $5(2-y)+y=-6$
 $10-5y+y=-6$
 $10-4y=-6$
 -10 -10
 -10
 -10
 -10
 -10
 -10
 -10
 -10
 $\frac{3}{2}y=33$
 $\frac{3}{3}y=33}{\frac{3}{3}}$
 $\frac{3}{5}$
 $\boxed{1}y=4$
 $\boxed{1}y=4$
 $\boxed{1}y=-1/6$
 $\frac{3}{5}y=33$
 $\frac{3}{5}y=33}{\frac{5}{3}}$

Show whether the given ordered pair is a solution of the equation. Show your work! 25) y=3x+4; (-1, 1) 26) 2x - 3y = 15; (0,5)

1 = 3(-1) + 9	2(0) - 3(5) = 15
1 = -3 + 9	0 - 15 = 15
1 = 1	$-15 \neq 15$
Types	$\overline{N_0}$
27) $y = 6 - 0.5x;$ (3, 4.5)	28) $y = -\frac{3}{4}x + 3; (-8, -3)$
4.5 = 6 - 0.5(3)	$-3 = -\frac{3}{7}(-\frac{8}{7}) + 3$
4.5 = 6 - 1.5	-3 = 6 + 3
4.5 = 4.5	$-3 \neq 9$
<u>19es</u>	$\boxed{N_0}$