1. Put in slope-intercept form.

$$y-2=-6(x-3)$$

2. Find the slope and yintercept.

$$5x - y = 2$$

$$-5 \times \qquad -5 \times$$

$$-y = -5 \times + 2$$

$$-1 \qquad -1 \qquad -1$$

Answer: m = 5 b = -2

y = 5x - 2

3. Write the equation of the line parallel to 3x - y = 1passing through (-15, -6).

$$3y-y=1$$

$$-y=-3x+1$$

$$y=3x-1$$
 $-6=3(-15)+b$

$$-6=-45+b$$

$$39=b$$

Answer:
$$y = 3x + 39$$

Answer: y = -6x + 20

through (4, -9).

4. Write the equation of the line with m = -2 passing

$$-9 = -2(4) + b$$
 $-9 = -8 + b$
 $+8 + 8$
 $-1 = b$
 $y = -2x - 1$

5. Write the equation of the line passing through (-2, 5), (-2, 8)

- with slope= 0 passing through (4,7). 4 = 0x +b 7 = 0(4) +b

7= b

6. Write the equation of the line



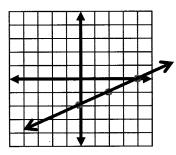
Answer:_

10.

Answer:

y = 0x +7 Answer:

7. Write the equation of the line graphed below:



Answer: $y = \frac{1}{2}x - 2$

8. Graph by the intercepts.

$$4x + 3y = -12$$

Work for x-intercept:

(-3,0) $\chi = -3$

$$\chi = 0$$
 $\frac{3}{3}y = -15$

9. Each pair of points lies on the same line. Find x.

$$(x, -7), (2,17);$$
 slope = $-\frac{8}{3}$

$$M = \frac{17 - (-7)}{7 - X} = -\frac{8}{3}$$

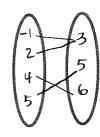
$$\frac{24}{2-x} = -\frac{8}{3}$$

$$-8(2-x) = 72$$

12. Graph 11. Graph

$$\{(-1,3)(2,3)(4,6)(5,5)\}$$

Draw a mapping:



State the domain and range.

Domain: 2-1,2,4,5}

Range: {3,5,6}

Is this a function? Explain.

13. Write the equation of the line perpendicular to y = -7x + 3 passing through (14,7). $\mathcal{M}_{\chi} = \frac{1}{2}$

$$7 = \frac{1}{7}(14) + b$$
 $7 = 2 + b$
 $-2 - 2$

Answer:
$$y = \frac{1}{7}x + 5$$

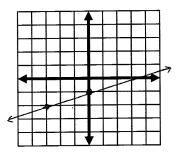
$$x - 3y = 3$$

$$-x$$

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

$$-3 - 3 - 3$$

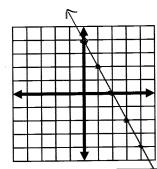
$$y = \frac{1}{3}x - 1$$



14. If a line has an undefined slope, what does the graph look like?



$$y = -2x + 4$$



15. Find the slope of the line passing through (-1,9) and (4,-7).

$$M = -\frac{7-9}{4-(-1)} = -\frac{16}{5}$$

Answer: $M = -\frac{16}{5}$

16. Graph the following function.

x	$f(x) = x^2 - 2x - 3$	f(x)
-2	$(-2)^{2} - 2(-2)^{2} - 3$	5
-1	$(-1)^2 - 2(-1) - 3$	0
0	(0)2-2(0)-3	-3
1	$(1)^{2} - 5(1) - 3$	-
2	$(2)^{2} - 2(2) - 3$	-3
3	(3)2-2(3)-3	0

