Name Hour

UNIT REVIEW

Read and follow all of the directions to help prepare for the test. Find Slope.

x	y
1	4
3	-2
5	-8

2) (4,1) (-7,1)

2.			
3)	(14,3)	(14,	-5)

2

undefined

2

2

-2

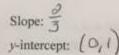
Graph the following equations.

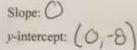
7)
$$y = -4x$$

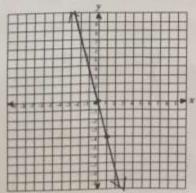
8)
$$-\frac{2}{3}x + y = 1$$

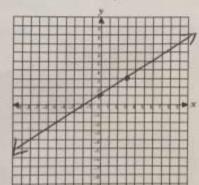
9)
$$y + 8 = 0$$

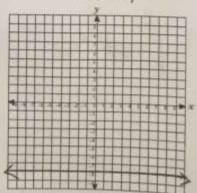
Slope: -4











$$10)x - 10 = 0$$

$$11) -5x - 10y = 30$$

12)
$$y-2=\frac{3}{4}(x+4)$$

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

Slope:

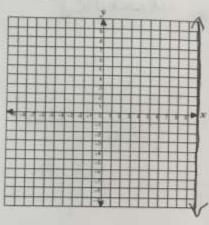
x-intercept:

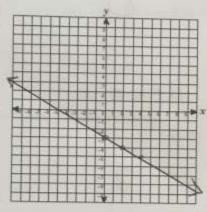
Slope:

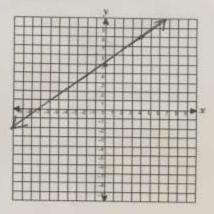
y-intercept:

Slope:

y-intercept:







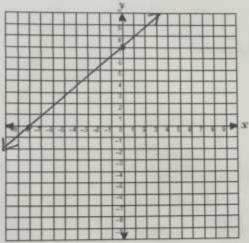
Write an equation in slope-intercept form given the information.

13)
$$(0.8)$$
 $m = -1$

14)
$$(-10,4)$$
 $m = -2$

15) (10, -20)
$$m = \frac{2}{5}$$

$$19) -7x + 8y = 56$$



21) Write the slope-intercept

and passes through the

V = -2x+14

point (3,8).

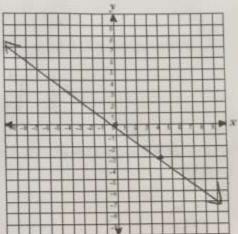
equation of the line that is

parallel to y = -2x + 34

perpendicular to
$$y = -2x + 3$$
 and passes through the point $(4, -6)$

$$20) \, 3x + 4y = 0$$

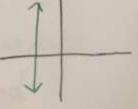
$$M = -\frac{3}{4}$$



$$7y = 14x + 21$$

$$-3y + 6x = -12$$

Parallel



a. Write a linear equation to compute the total cost, y, of skating x number of hours.

b. Use the equation to find the total cost to skate for 6 hours.

c. If your total bill is \$10.25, how many hours did you skate for?

27) If f(x) = 2x + 8 and $g(x) = x^2 - 6x$, find the following:

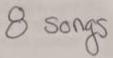
20

c.
$$f(d-2)$$

d.
$$f(g(1))$$

28) James just received a \$40 paycheck from his new job. He spends some of it buying music online and saves the rest in a bank account. His savings is given by F(m) = 40-1.25m, where m is the number of songs he downloads at \$1.25 per song.

a.) How many songs can James buy if he wants to save \$30?



b.) Using this scenario from above, what does F(5) represent?

James downloaded 5 songs.