

8th
grade:

Thomas
modified

NTI DAY #2
(weather-closed school day)

PACKET
TWO
(Math)

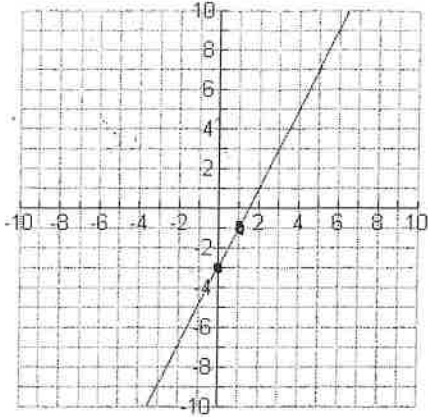
General Directions:

Due to weather, Harrison County Schools are closed. In an effort to utilize this day on the school calendar, your child is assigned and should work on this "packet" of school work today. It will count as a grade for this subject. The work attached is specific to the subject listed above. Please contact your child's teacher of this subject at 234-7123 in the event you/your student have questions on this packet. Staff and teachers reported to HCMS today and are available should you have questions.

While this is DUE no later than the last school day before the 3rd nine-weeks ends, we *strongly encourage* students to turn it in to their teacher as soon as it's complete (soon after the NTI day) to avoid it being lost, eaten by the family pet, burned to keep warm, etc

Be Careful with
Negatives

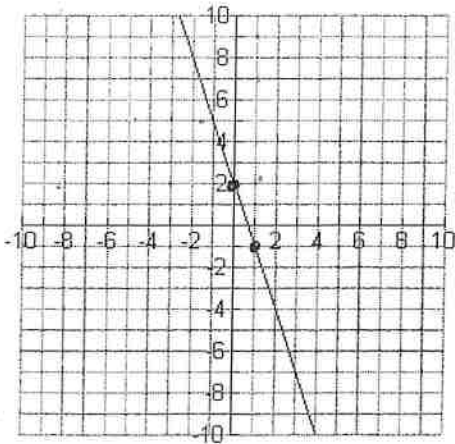
Starter



- a) $y = 2x - 3$
- b) $y = -2x - 3$
- c) $y = \frac{1}{2}x - 3$
- d) $y = 2x + 3$

m =

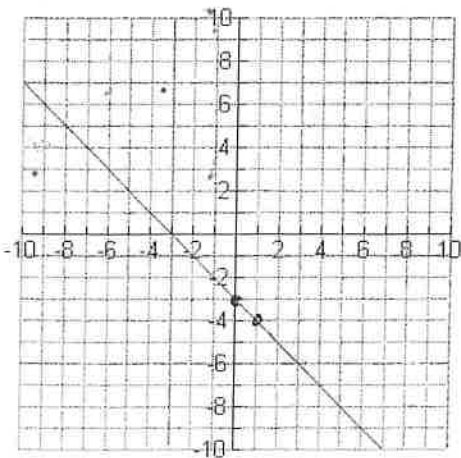
b =



- a) $y = 2x - 3$
- b) $y = -3x + 2$
- c) $y = 2x + 3$
- d) $y = \frac{1}{2}x + 3$

m =

b =



- a) $y = -3x$
- b) $y = -3$
- c) $y = -x - 3$
- d) $y = x + 3$

m =

b =

HW:

Name: _____ # _____

Date: _____ Period: _____

NOTES: Lesson 4-10: Writing Equations (Given a Table)

REMEMBER:

$$y = mx + b$$

"m" stands for the _____ of the line.

"b" stands for the _____ of the line.

Ex

X	Y
-1	6
0	5
1	4
2	3

SLOPE = 1

Y-int. = -5

Equation = $1x - 5$
or
 $x - 5$

If you are given a table of values, and you have verified that the table represents a linear relationship (there is a constant rate of change), you can find both the slope and y-intercept from that table and write the equation of that line.

- To find the **slope** (rate of change), use the formula $m = \frac{\Delta y}{\Delta x}$
- To find the **y-intercept** (initial value), find the coordinate point (x,y) in which the x-coordinate is 0. (0, __)

1)

x	y
-2	-4
0	2
2	8
4	14
6	20

slope: _____

y-intercept: _____ (when $x = 0$)

equation: _____

2)

x	y
-2	80
-1	70
0	60
1	50
2	40

slope: _____

y-intercept: _____ (when $x = 0$)

equation: _____

3)

x	y
-2	1
-1	0.5
0	0
1	-0.5
2	-1

slope: _____

y-intercept: _____ (when $x = 0$)

equation: _____

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PLUMBER

Verbal Description

When a plumber is called, the cost of the service call is \$50 for him to show up at your house, plus an additional \$25 per hour.

Write and graph an equation to represent this relationship where y is the total cost of the service call and x is the number of hours the plumber is at your home.

Find and interpret the slope and y-intercept of the linear equation

$$m =$$

$$b =$$

Equation

Define your variables:

$$y = \text{cost} \quad \text{words}$$

$$x = (\text{word after per}) \quad \boxed{}$$

Write your equation:

$$y = \boxed{50}x + \underline{\quad}$$

Table of Values

X	Y

Points to Graph:

(,)

(,)

Graph

on back

100
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
5

1 2 3 4 5 6 7 8 9 10 11 12

