

Bell Ringer

Tuesday 9/24

1) Write an equation in **point-slope form** of a line that passes through $(-8, -2)$ and has a slope of 5

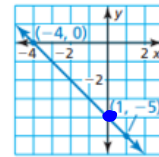
x, y, m

$$y + 2 = 5(x + 8)$$

$(0, 7)$

2) Write an equation in **slope-intercept form** of the line below.

$$y = -x - 4$$



$y = mx + b$

3) Determine if the data in each table can be modeled by a linear equation. If so, write the equation that represents y as a function of x .

$$m = \frac{-6}{2} = -3$$

x	-3	-1	1	3	5
y	16	10	4	-2	-8

$+2$ (between x=-1 and x=1)
 -6 (between y=10 and y=4)

$$y - 4 = -3(x - 1)$$

$$y = -3x + 7$$

x	y
1	18
2	15
4	12
8	9

-3 (between y=15 and y=12)

Nonlinear ☺

4) Find the slope of the line that goes through the points $(1, -3)$ and $(-2, 9)$.

$$\frac{9 - (-3)}{-2 - 1} = \frac{12}{-3} = -4$$

Hand in Week #5 Packet

Name _____ Hour _____

Math 1A Honors Week #5 Packet

Date	Sections Done in Class	Homework Assigned	Homework Due Score /10
Mon 9/16	3.6 Day 1 - Transformations of Linear Functions	3.6 Day 1 - Transformations of Linear Functions Pg 151-154 #s 1, 3, 6, 9, 13, 17, 21, 25, 29, 33, 36, 38, 55, 59 72-74	x
Tue 9/17	3.6 Day 2 - Transformations of Linear Functions	3.6 Day 2 - Transformations of Linear Functions Pg 151-154 #s 2, 5, 7, 11, 15, 19, 23, 27, 31, 35, 37, 57, 62, 68	x
Wed 9/18	Ch 3 Review	Ch 3 Review (due tomorrow) Pg 156-158 #s 1-20, 22, 23, 26, 27, 28	3.6 Day 1 - Transformations of Linear Functions /10
Thurs 9/19	Ch 3 Test	Finish any missing hw	3.6 Day 2 - Transformations of Linear Functions /10 Ch 3 Review /10
Fri 9/20	4.1 Writing Equations in Slope-Intercept Form	4.1 Writing Equations in Slope-Intercept Form Pg 169-170 #s 1-2, 3-21 odds (skip #17) 25-28, 29-35 odds	Nothing due
Mon 9/23	x	x	Nothing due
Tues 9/24	x	x	4.1 Writing Equations in Slope-Intercept Form /10
Bell Ringers – 2 pts per day			/8
Assignment Total for Week #5			/48

Upcoming...

- **Thurs 9/26: Quiz on 4.1-4.3**
- **Mon 10/7: Ch 4 Test**

4.2 online hw due tomorrow :)

Point-Slope Form

$$(3, -2), m = 1/2$$

x_1, y_1

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

$$y - \boxed{7} = \frac{2}{3}(x + 1)$$

$x - x_1$

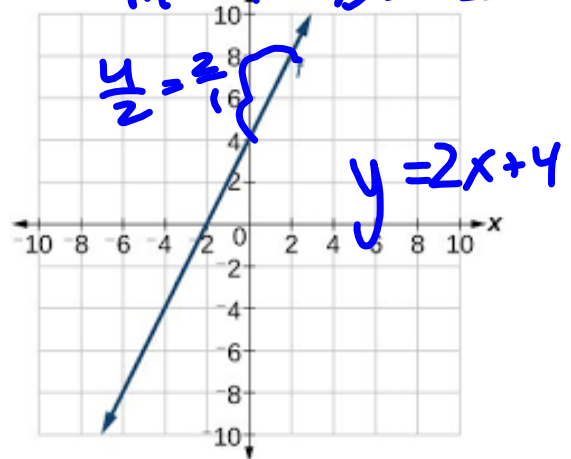
$$(x_1, y_1) = (-1, 7)$$


$$m = \frac{2}{3}$$

Slope-Intercept Form

$$y = 4x - 2$$

$$m = 4 \quad b = -2$$



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due Thursday

Math 1 Honors

Name _____

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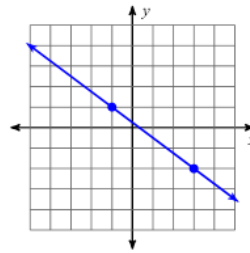
Slope-Intercept and Point-Slope Forms

Date _____ Hour _____

Find the slope of each line.

1) $y = -\frac{1}{5}x - 1$

2)



Find the slope of the line through each pair of points.

3) $(10, 2), (15, -13)$

4) $(-17, -11), (13, 11)$

Write the slope-intercept form of the equation of each line given the slope and y-intercept.

5) Slope = $\frac{1}{2}$, y-intercept = 1

6) Slope = $-\frac{1}{5}$, y-intercept = 0

Write the slope-intercept form of the equation of the line through the given points. $y = mx + b$

7) through: $(3, 4)$ and $(0, 3)$

8) through: $(1, -5)$ and $(2, -4)$

9) through: $(-4, -2)$ and $(-5, 5)$

10) through: $(2, 3)$ and $(3, -2)$

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11) through: $(-5, 2)$ and $(0, -2)$

12) through: $(2, 3)$ and $(5, 5)$

Write the Point-slope form of the equation of the line through the given points. $y - y_1 = m(x - x_1)$

13) through: $(-1, -4)$, slope = 8

14) through: $(-1, -5)$, slope = 4

15) through: $(-5, -5)$, slope = $\frac{9}{4}$

16) through: $(3, -3)$, slope = $-\frac{4}{3}$

17) through: $(-4, 3)$, slope = $-\frac{7}{4}$

18) through: $(-3, -1)$, slope = $-\frac{4}{3}$

19) through: $(0, 3)$, slope = $-\frac{1}{5}$

20) through: $(3, 4)$, slope = 2

Write the slope-intercept form of the equation of the line through the given point with the given slope. $y = mx + b$

21) through: $(3, 3)$, slope = $-\frac{1}{3}$

22) through: $(-1, 4)$, slope = -6

23) through: $(-3, -1)$, slope = $-\frac{4}{3}$

24) through: $(1, -5)$, slope = -1

