

Name: _____
 Period _____

Date: _____
 Henderson - Math 8



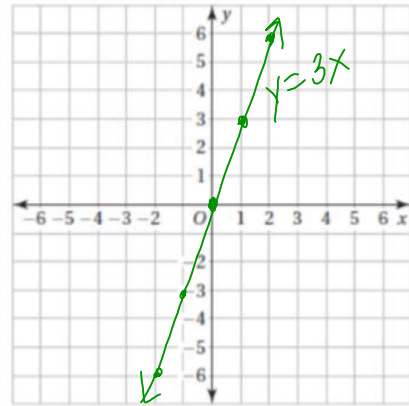
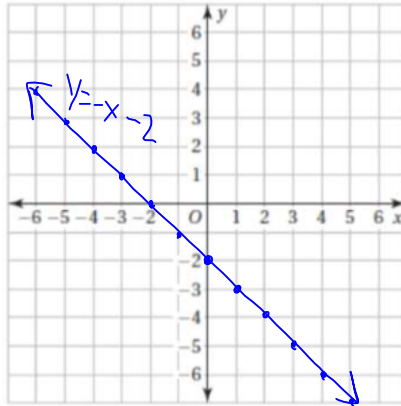
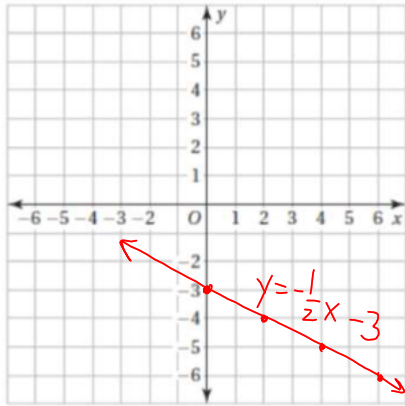
Homework for Week 10

Monday: HW# 10A (go to www.khanacademy.org or www.hendersonmath.com for review)
 Graph each equation on the set of axes below. Put arrows on each end and LABEL the line.

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

2.) $y = -x - 2$

3.) $y = 3x + 0$



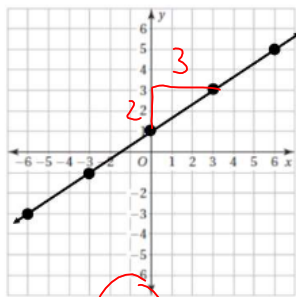
Tuesday: HW #10B

Find the rate of change. Show your work.

4.) $3x + y = 8$
 $-3x \quad -3x$

 $y = -3x + 8$

$m = \underline{\underline{-3}}$



$\frac{\text{rise}}{\text{run}} = \underline{\underline{-\frac{2}{3}}}$

5.) $(-6, 4) (7, 5)$
 $\frac{5 - 4}{7 - (-6)} = \frac{1}{13}$

$\frac{\Delta y}{\Delta x} = \underline{\underline{\frac{1}{13}}}$

6.)

X	Y
5	8
3	11
1	14

$-2 \downarrow$ $\uparrow +3$
 $\Delta y = 3$
 $\Delta x = -2$

$\frac{\Delta y}{\Delta x} = \underline{\underline{-\frac{3}{2}}}$

8.) $4x - 5y = 20$
 $-5y = -4x + 20$
 $\frac{-5y}{-5} = \frac{-4x + 20}{-5}$

$y = \frac{4}{5}x - 4$
 $m = \underline{\underline{\frac{4}{5}}}$

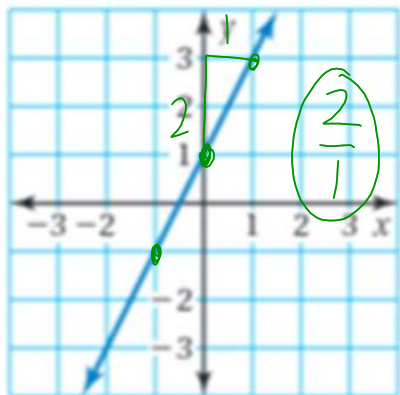
9.) $(3, 9) (6, -9)$
 $\frac{-9 - 9}{6 - 3} = \frac{-18}{3}$

$\frac{\Delta y}{\Delta x} = \underline{\underline{-6}}$

Wed: HW#10C (go to www.khanacademy.org or www.hendersonmath.com for review)

10.) Which function has the greatest rate of change? A, B, or C?

A.



B.

X	Y
-4	2
-2	1
0	0
2	-1

Handwritten calculations for the slope of line B: $\frac{1-2}{-2-(-4)} = \frac{-1}{2} = -\frac{1}{2}$. The slope $-\frac{1}{2}$ is circled in red.

C. $y = 5x - 3$

Handwritten: $m = 5$ (circled in blue)

Handwritten note: "# C has the greatest r.o.c."

Thursday: HW#10D (go to www.khanacademy.org or www.hendersonmath.com for review)

11.) Find the rate of change for the following data:

Handwritten calculation for data points (2, 7) and (4, 7): $\frac{7-7}{4-2} = \frac{0}{2} = \text{zero}$

Answers

11) $\frac{0}{2}$

12) $\frac{-4}{1}$

13) $\frac{D}{1}$

14) $\frac{X=8}{1}$

15) $\frac{r=-3}{1}$

16) $\frac{X=-4}{1}$

12.) Identify the rate of change in the following linear equation:

Handwritten calculation: $\frac{-2y}{-2} = \frac{8x+5}{-2} \Rightarrow y = -4x - \frac{5}{2}$

13.) Which of the following is NOT written in slope-intercept form?

a) $y = 6x + 7$

b) $y = \frac{2}{x} - 9$

c) $y = 5x + 2$

d) $8x + 2y + 12 = 0$ (circled in green)

Find the solution.

14. $11x = 24 + 8x$
 $\frac{-8x}{-8x} \quad \frac{-8x}{-8x}$
 $\frac{3x}{3} = \frac{24}{3}$
 $x = 8$ (boxed in red)

15. $5r + 2 = 4r - 1$
 $\frac{-4r}{-4r} \quad \frac{-4r}{-4r}$
 $\frac{r+2}{-2} = \frac{-1}{-2}$
 $r = -3$ (boxed in blue)

16. $0.2(x + 50) - 6 = 0.4(3x + 20)$
 $0.2x + 10 - 6 = 1.2x + 8$
 $0.2x + 4 = 1.2x + 8$
 $\frac{-0.2x}{-0.2x} \quad \frac{-0.2x}{-0.2x}$
 $\frac{4}{-8} = \frac{1x+8}{-8}$
 $\frac{-4}{-8} = \frac{x+8}{-8}$
 $x = -4$ (boxed in green)