

MATH A UNIT 2 REVIEW

PART 1. SHOW YOUR WORK. CIRCLE YOUR ANSWERS.

1. Complete the given ordered pairs so that each ordered pair satisfies the given equation.

a) $y = -4x + 3$ $(-1, \quad)$ $(2, \quad)$ $(\quad, 15)$ $(\quad, -5)$

b) $y = -\frac{1}{2}x - 5$ $(-2, \quad)$ $(4, \quad)$ $(\quad, -6)$ $(\quad, -11)$

c) $y = -\frac{2}{3}x - 1$ $(-3, \quad)$ $(-1, \quad)$ $(\quad, 3)$ $\left(\quad, -\frac{2}{3}\right)$

2. Determine the slope of the line that goes through each pair of points.

a) $(-2, 1), (-2, 7)$ b) $(-1, -5), (-3, -5)$ c) $(-7, 1), (-5, 0)$

3. Do the following problems from the textbook.

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PART 2. SHOW YOUR WORK. CIRCLE YOUR ANSWERS.

1. Sketch the graph of each equation below.

a) $y = -\frac{1}{2}x - 1$ b) $y = -2x - 5$ c) $-x + 2y = 8$

d) $-5x - 2y = -6$ e) $y = -3x$ f) $-3x + 2y = 6$

2. Do the following word problems from the textbook.

Page 168 #57, #58

3. Complete the tables below. Plot the resulting data and connect the points.

a)

$x:$	-3	-2	-1	0	1
$y = -2x + 1$					

b)

$x:$	-3	-2	-1	0	1
$y = -\frac{1}{2}x + 2$					

PART 3. SHOW YOUR WORK. CIRCLE YOUR ANSWERS.

1. Write an equation of a line going through the given points. Write in slope-intercept form.

a) $(-3, 0), (0, -6)$ b) $(-4, 8), (4, 4)$ c) $(-1, 2), (4, 2)$

2. Do the following word problems from the textbook.

Page 176 #66-70

3. Which of the following are the solutions of the equation $y = -\frac{2}{3}x - 1$?

a) $(3, -1)$ b) $\left(\frac{1}{2}, -\frac{4}{3}\right)$ c) $\left(-\frac{3}{4}, -\frac{1}{2}\right)$

4. Which of the following are the solutions of the equation $y = \frac{4}{5}x - 3$?

a) $\left(\frac{1}{4}, -\frac{2}{5}\right)$ b) $\left(\frac{3}{5}, -\frac{63}{25}\right)$ c) $\left(\frac{15}{4}, 0\right)$

PART 4. *SHOW YOUR WORK. CIRCLE YOUR ANSWERS.*

1. Do the following word problems from the textbook.

a) Page 177 #77 b) Page 200 #53 c) Page 202 #19 d) Page 202 #20

2. Sketch the following equations. Label the x-intercept and y-intercept.

a) $3x + 2y = 12$ b) $-4x + 7y = -28$ c) $-2x - 5y = -10$ d) $2x = 3y - 6$