Mr. Fahrenbacher
Algebra 12-22
Section 4.1-4.2 Review

Answer the following questions about the coordinate grid.

1) Plot these points on the Cartesian Coordinate Grid below. Also, state what quadrant they are in, if any:

A: (2, 5) Quadrant: I

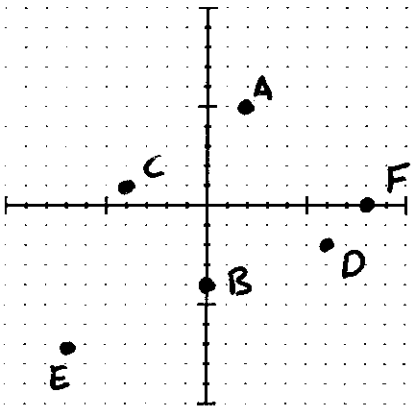
B: (0, -4) Quadrant: none

C: (-4, 1) Quadrant: II

D: (6, -2) Quadrant: IV

E: (-7, -7) Quadrant: III

F: (8, 0) Quadrant: none



2) Write down the coordinates of the points below. Also, state the quadrant (if possible).

A: (5,7) Quadrant: I

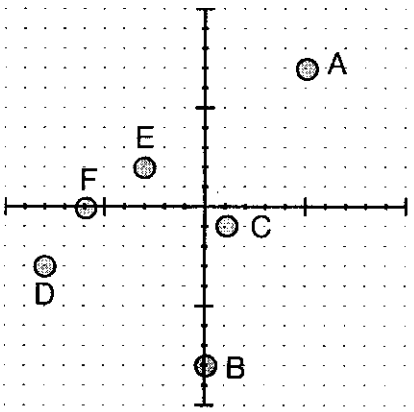
B: (0,-8) Quadrant: none

C: (1,-1) Quadrant: IV

D: (-8,-3) Quadrant: III

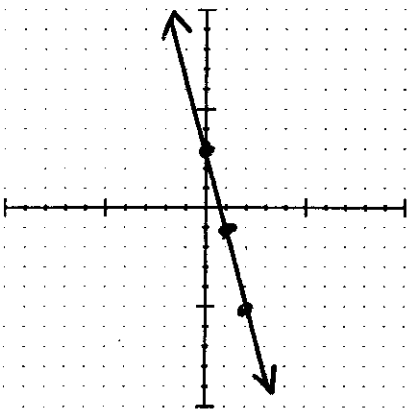
E: (-3,2) Quadrant: II

F: (-6,0) Quadrant: none



Graph the following equations. Use a table of values. YOU MUST PLOT AT LEAST THREE POINTS.

3) y = -4x + 3



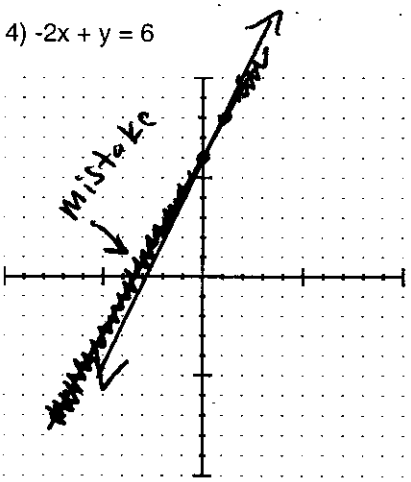
x	y
0	3
1	-1
2	-5

$y = -4(0) + 3$
$y = 3$

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

$y = -4(2) + 3$
$= -8 + 3$
$= -5$

4) -2x + y = 6



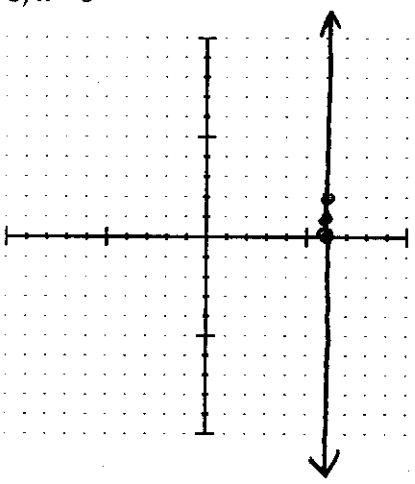
x	y
0	6
1	8
2	10

$-2(0) + y = 6$
$y = 6$

$-2(1) + y = 6$
$-2 + y = 6$
$y = 8$

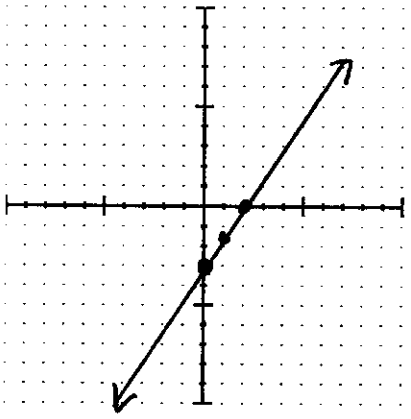
$-2(2) + y = 6$
$-4 + y = 6$
$y = 10$

5) x = 6



x	y
6	0
6	1
6	2

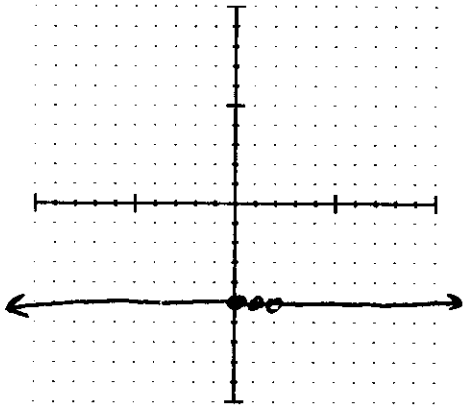
6) 3x = 2y + 6



x	y
0	-3
1	-1.5
2	0

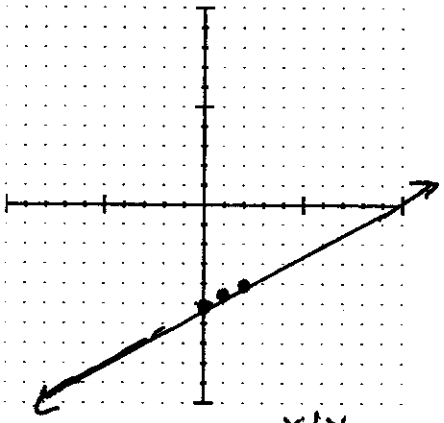
$3(0) = 2y + 6$
$0 = 2y + 6$
$-6 = 2y$
$-3 = y$

7) y = -5



x	y
0	-5
1	-5
2	-5

8) x - 2y = 10



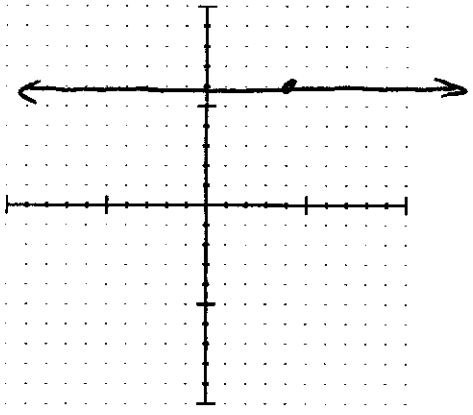
$3(1) = 2y + 6$
$3 = 2y + 6$
$-3 = 2y$
$-1.5 = y$

$3(2) = 2y + 6$
$6 = 2y + 6$
$0 = 2y$
$0 = y$

x	y
0	-5
1	-4.5
2	-4

Use the information to write the equation of the horizontal or vertical line.

9) Write the equation of the horizontal line that passes through the point (4, 6). Hint: sketch the graph first and then make a table of values.



x	y
4	6
5	6
7	6

Equation: $y = 6$

10) Write the equation of the vertical line that passes through the point (-5, 2).

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Equation: $x = -5$