

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

WS 26.1 – Graphing Equations by the Table Method

Find solutions to each equation to complete the table, then graph the equation. Remember to solve for y!

1. $\frac{2y}{2} = \frac{3x}{2} + \frac{4}{2}$

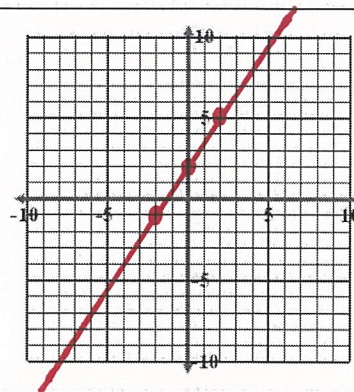
$$y = \frac{3}{2}x + 2$$

$$y = \frac{3}{2}(0) + 2 = 2$$

$$y = \frac{3}{2}(2) + 2 = 5$$

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

x	y
0	2
2	5
-2	-1



2. $\frac{1x}{-1} + 4y = \frac{20}{-1}$

$$4y = -\frac{1x}{4} + \frac{20}{4}$$

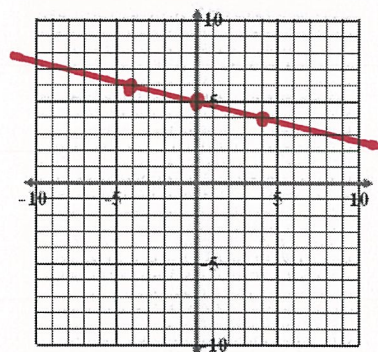
$$y = -\frac{1}{4}x + 5$$

$$y = -\frac{1}{4}(0) + 5 = 5$$

$$y = -\frac{1}{4}(4) + 5 = 4$$

$$y = -\frac{1}{4}(-4) + 5 = 6$$

x	y
0	5
4	4
-4	6



3. $\frac{-1y}{-1} = \frac{4x}{-1} + \frac{4}{-1}$

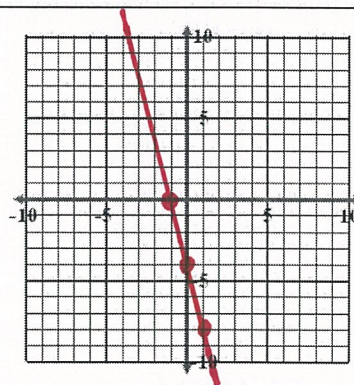
$$y = -4x - 4$$

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

$$y = -4(1) - 4 = -8$$

$$y = -4(-1) - 4 = 0$$

x	y
0	-4
1	-8
-1	0



4. $\frac{3y}{3} - \frac{12}{3} = \frac{2x}{3} + \frac{12}{3}$

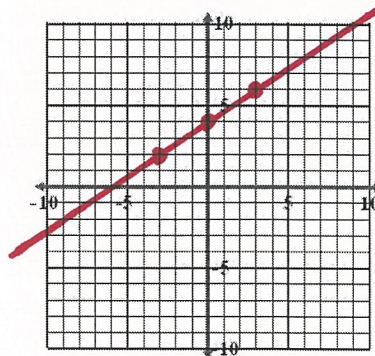
$$y = \frac{2}{3}x + 4$$

$$y = \frac{2}{3}(0) + 4 = 4$$

$$y = \frac{2}{3}(3) + 4 = 6$$

$$y = \frac{2}{3}(-3) + 4 = 2$$

x	y
0	4
3	6
-3	2



- smart x-values:
- ① pick 0
 - ② pick the denominator of the fraction
 - ③ pick the negative of the denominator of the fraction

5. $5y - 1x = -30$

$+1x +1x$

$$\frac{5y}{5} = \frac{1x - 30}{5}$$

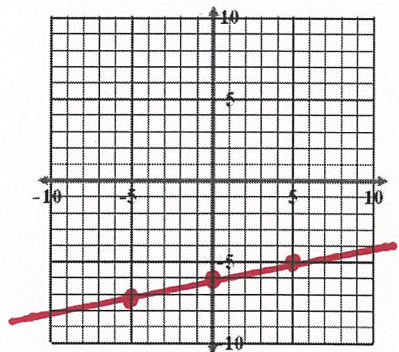
$$y = \frac{1}{5}x - 6$$

$$y = \frac{1}{5}(0) - 6 = -6$$

$$y = \frac{1}{5}(5) - 6 = -5$$

$$y = \frac{1}{5}(-5) - 6 = -7$$

x	y
0	-6
5	-5
-5	-7



6. $-2x + 5y = -10$

$+2x +2x$

$$\frac{5y}{5} = \frac{2x - 10}{5}$$

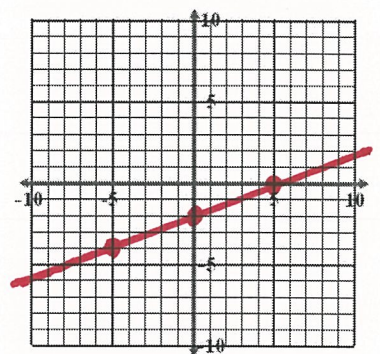
$$y = \frac{2}{5}x - 2$$

$$y = \frac{2}{5}(0) - 2 = -2$$

$$y = \frac{2}{5}(5) - 2 = 0$$

$$y = \frac{2}{5}(-5) - 2 = -4$$

x	y
0	-2
5	0
-5	-4



7. $y = -\frac{1}{9}x + 3$

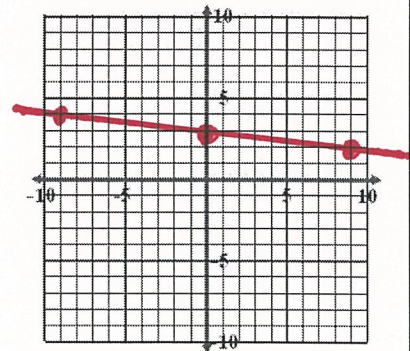
Already solved for y.

$$y = -\frac{1}{9}(0) + 3 = 3$$

$$y = -\frac{1}{9}(9) + 3 = 2$$

$$y = -\frac{1}{9}(-9) + 3 = 4$$

x	y
0	3
9	2
-9	4



8. $y = -4$

No matter what we choose for x, y-coordinate is ALWAYS -4.

x	y
0	-4
5	-4
-5	-4

