KEY

Section 5.3 – Notes/Examples – Given Equation in Slope-Intercept Form, Graph the line

Steps: 1. Identify your slope and y-intercept

2. Plot the y-intercept

3. From that point (not the origin), count your slope and plot second point

   (continue counting slope until you have four points, if they will fit on your graph)

4. Draw a straight line with arrows on each end

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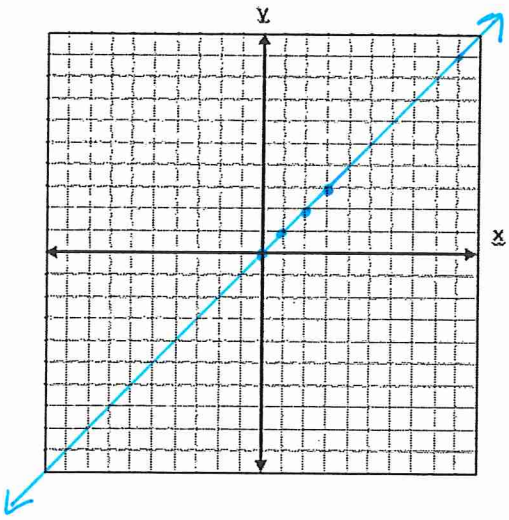
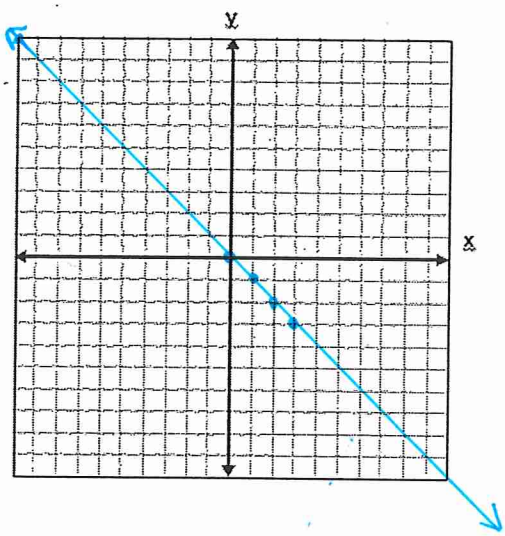
1. $y = x$

m = 1 b = 0



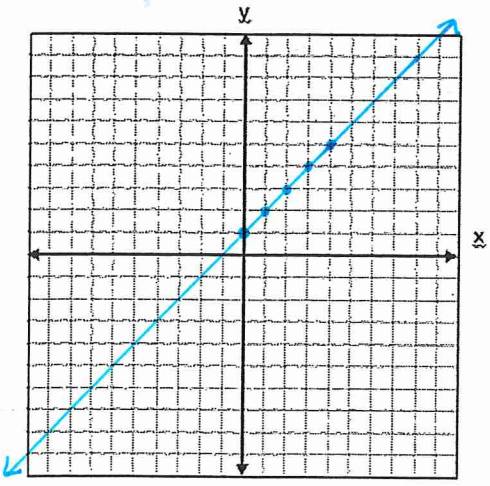
2. $y = -x$

m = −1 b = 0



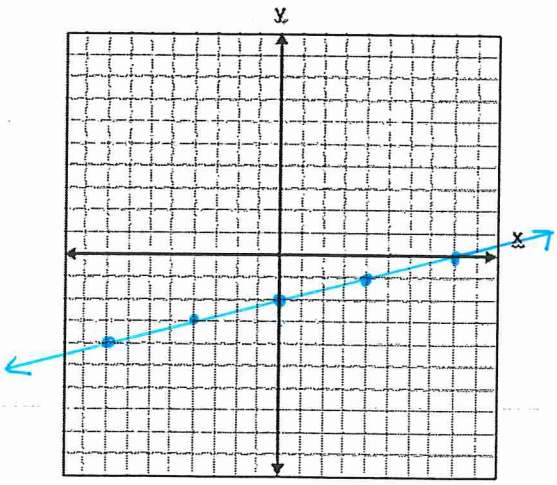
3. $y = x + 1$

m = 1 b = 1



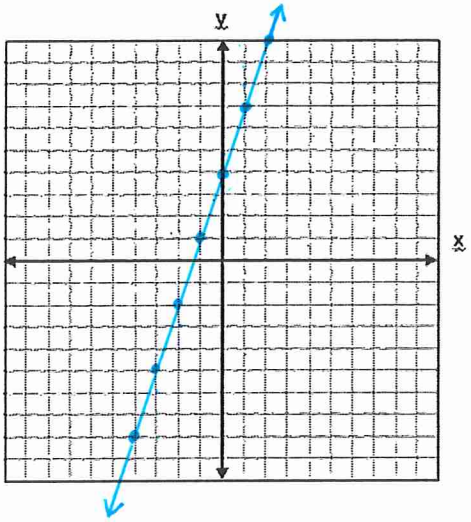
4. $y = \frac{1}{4}x - 2$

m = $\frac{1}{4}$ b = −2



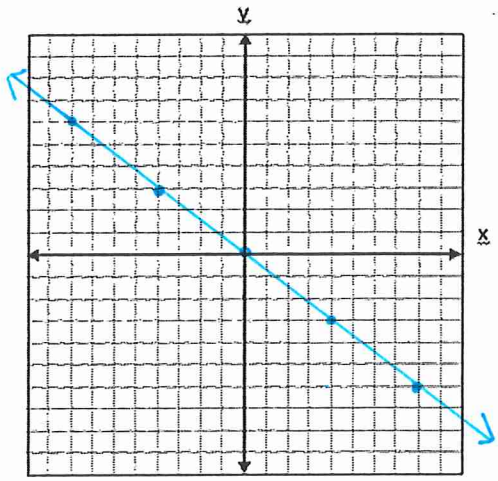
5. $y = 3x + 4$

m = 3 b = 4



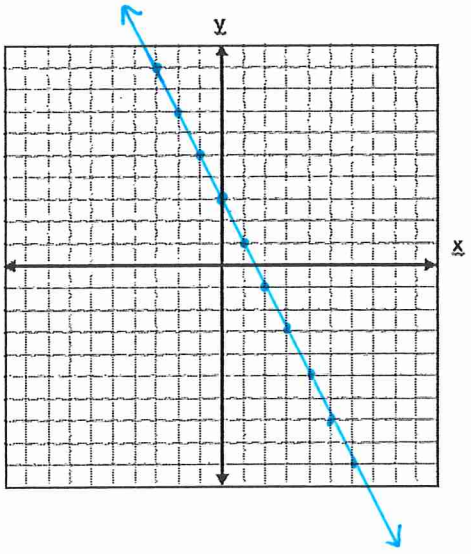
6. $y = -\frac{3}{4}x$

m = $-\frac{3}{4}$ b = 0



7. $y = -2x + 3$

m = -2 b = 3



8. $y = \frac{2}{7}x - 6$

m = $\frac{2}{7}$ b = -6