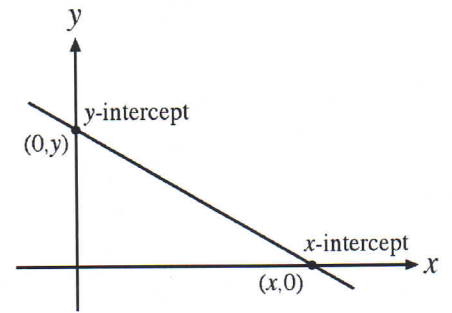


Intercept Method Graphing of a Line

Date Lesson Notes

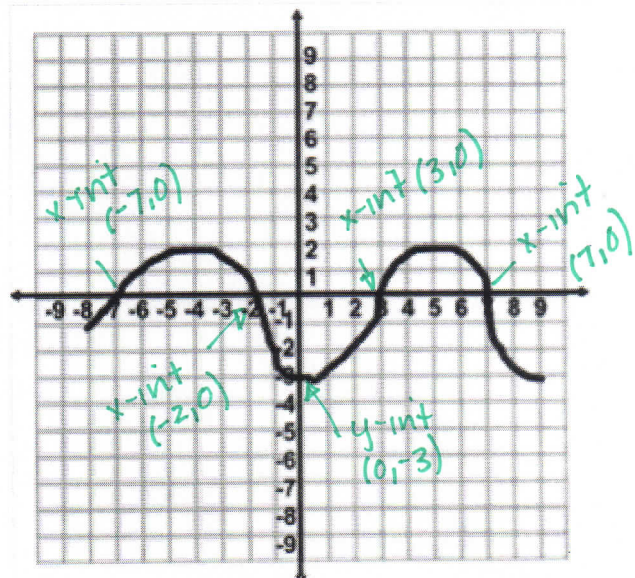
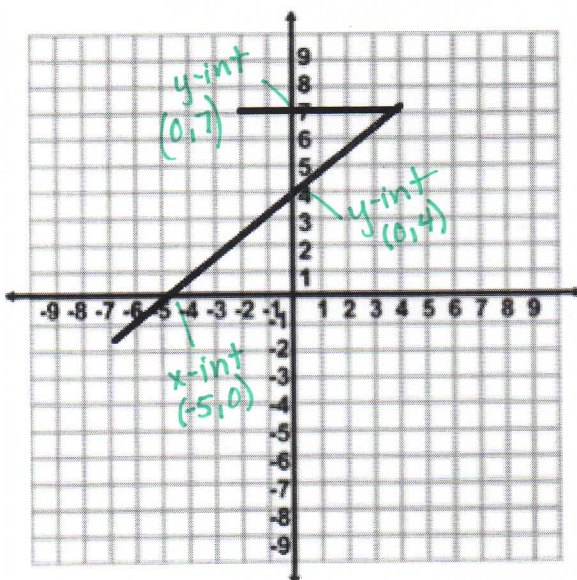
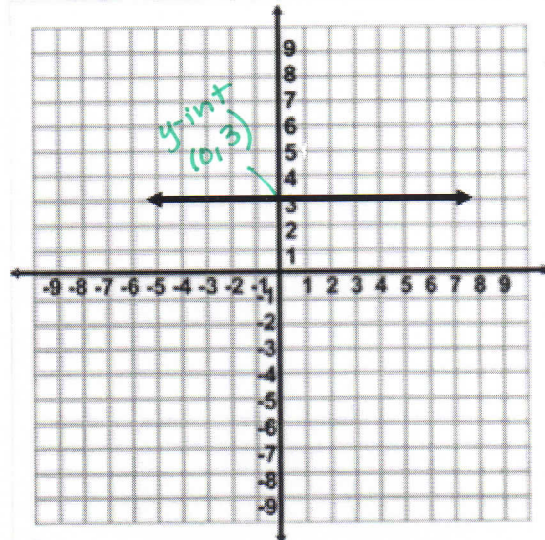
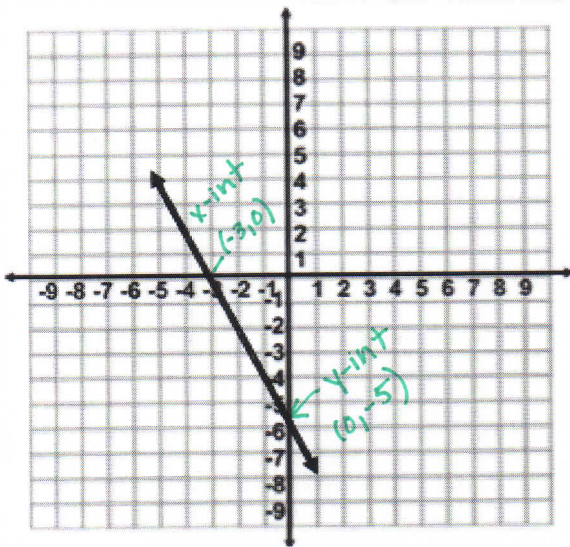
Y-Intercept: Where the line crosses the y-axis and when $x = 0$.

X-Intercept: Where the line crosses the x-axis and when $y = 0$.



Finding the x and y Intercepts from a Graph

Label all the y-intercepts and x-intercepts on the graph.



Intercept Method Graphing of a Line

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Finding the x and y Intercepts from an Equation

Steps:

1. To find the y-intercept, let $x = 0$, then solve for y .
2. To find the x-intercept, let $y = 0$, then solve for x .
3. Plot the intercepts on the graph.
4. Connect the points!

Graph the following equations using the **INTERCEPT METHOD**.

a) $y = 3x - 6$

y-int, let $x=0$

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

$$y = -6$$

\therefore y-int is $(0, -6)$

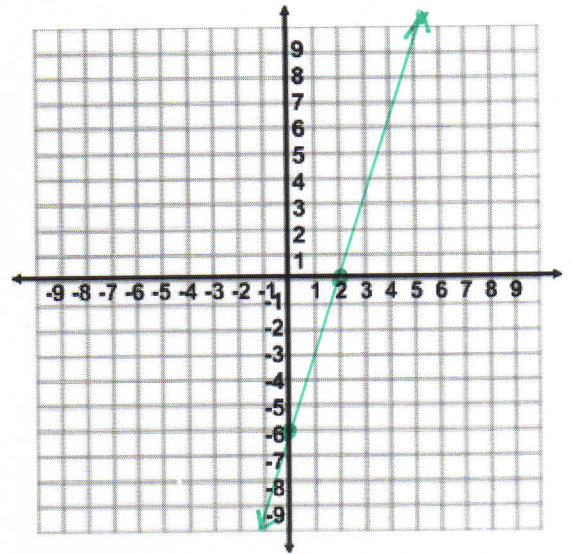
x-int, let $y=0$

$$0 = 3x - 6$$

$$\frac{6}{3} = \frac{3x}{3}$$

$$2 = x$$

\therefore x-int is $(2, 0)$



b) $y = \frac{7}{3}x - 2$

y-int, let $x=0$

$$y = \frac{7(0)}{3} - 2$$

$$y = 0 - 2$$

$$y = -2$$

\therefore y-int is $(0, -2)$

x-int, let $y=0$

$$0 = \frac{7}{3}x - 2$$

$$2 = \frac{7}{3}x$$

$$\frac{6}{7} = \frac{7x}{7}$$

$$0.85 = x$$

\therefore y-int is $(0.85, 0)$

