

Name: Solutions

Date: Oct 22, 2013

Graphing Lines in the form $y = mx + b$

Graph **and label** (a, b, c, ...) each line on the grid provided.

Each line **must** include its y-intercept and at least 3 other points on the graph.

Use a ruler!

a) $y = \frac{-4}{3}x - 2$	b) $y = 4x - 6$	c) $y = \frac{3}{5}x$	d) $y = -2x + 10$
Slope: $\frac{-4}{3}$	Slope: $\frac{4}{1}$	Slope: $\frac{3}{5}$	Slope: $\frac{-2}{1}$
Rise: $\frac{-4}{3}$	Rise: $\frac{4}{1}$	Rise: $\frac{3}{5}$	Rise: $\frac{-2}{1}$
Run: $\frac{3}{3}$	Run: $\frac{1}{1}$	Run: $\frac{5}{5}$	Run: $\frac{1}{1}$
y-Intercept: $\frac{-2}{3}$	y-Intercept: $\frac{-6}{1}$	y-Intercept: $\frac{0}{5}$	y-Intercept: $\frac{10}{1}$
e) $y = -x - 9$	f) $y = x + 9$	g) $y = \frac{1}{4}x - 9$	h) $y = 7$
Slope: $\frac{-1}{1}$	Slope: $\frac{1}{1}$	Slope: $\frac{1}{4}$	Slope: $\frac{0}{1}$
Rise: $\frac{-1}{1}$	Rise: $\frac{1}{1}$	Rise: $\frac{1}{4}$	Rise: $\frac{0}{1}$
Run: $\frac{1}{1}$	Run: $\frac{1}{1}$	Run: $\frac{4}{4}$	Run: $\frac{\infty}{1}$
y-Intercept: $\frac{-9}{1}$	y-Intercept: $\frac{9}{1}$	y-Intercept: $\frac{-9}{4}$	y-Intercept: $\frac{7}{1}$

