

Today is 10/30/17

Get out note packet and calculator

Pick up a ruler and graph paper

**Goal: Graph a line given equation or slope
and a point**

Agenda:

Brain Teaser

p. 16 & 17

Start Homework

Homework:

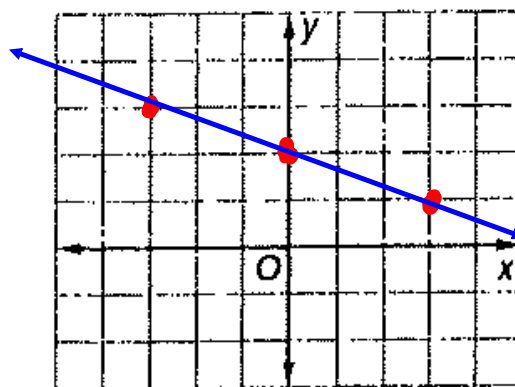
Graphing
worksheet

p. 16

Graph the line passing through the given point with the given slope.

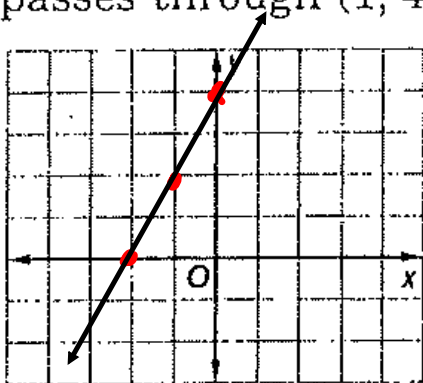
10. slope = $-\frac{1}{3}$

passes through (0, 2)



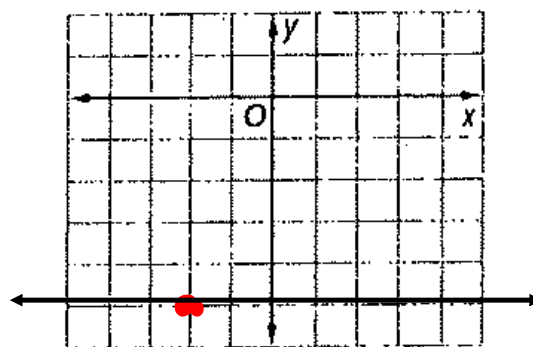
11. slope = 2

passes through (1, 4)



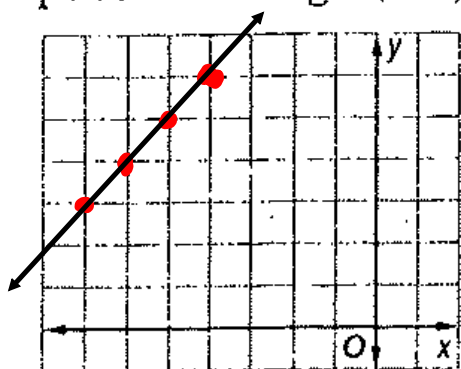
12. slope = 0

passes through (-2, -5)



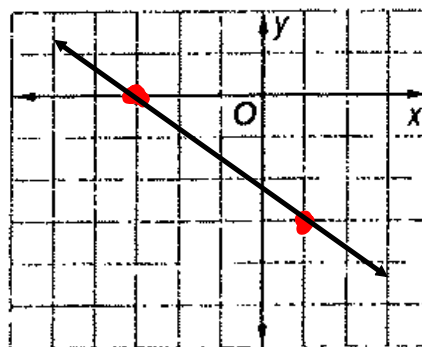
13. slope = 1

passes through $(-4, 6)$

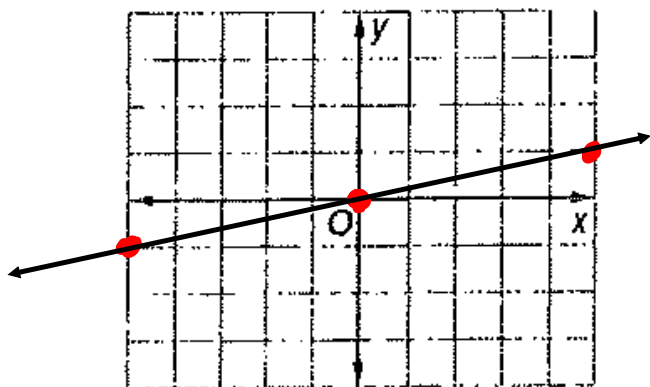


14. slope = $-\frac{3}{4}$

passes through $(-3, 0)$



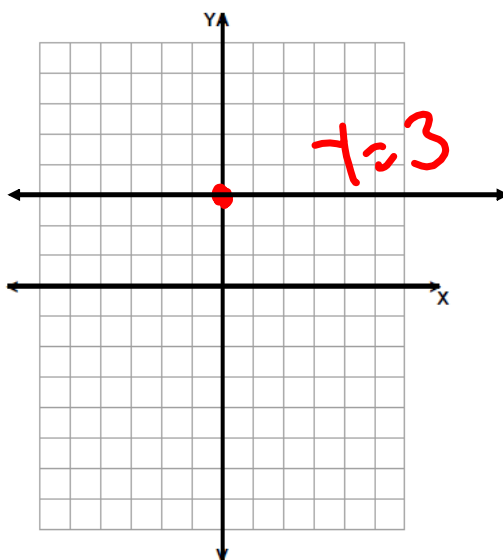
15. slope = $\frac{1}{5}$
passes through $(0, 0)$



Graph each equation. Show all work on this paper. Graph the lines on a separate sheet of graph paper. **Graph on the Graph Paper Given to you!!**

1. $y = 3$

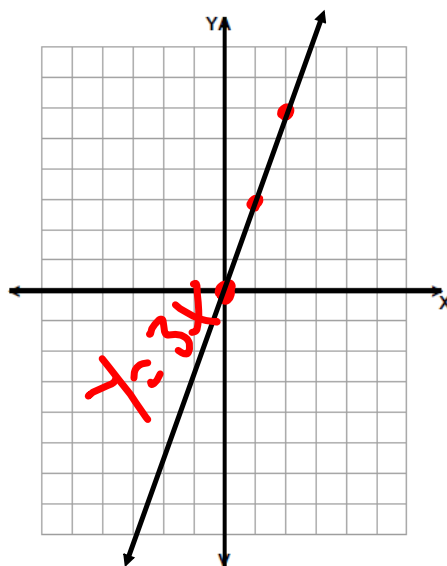
$$m = 0$$
$$b = 3$$



2. $y = 3x$

$m = 3$

$b = 0$



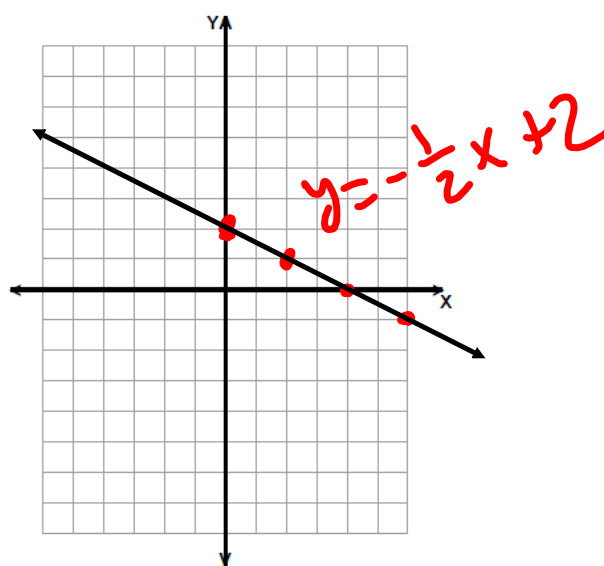
$$3. \quad x + 2y = 4$$

$$\begin{array}{r} -x \quad -x \\ \hline 2y = \frac{-x}{2} + \frac{4}{2} \end{array}$$

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

$$m = -\frac{1}{2}$$

$$b = 2$$



$$4. \quad 2x + y = -2$$

$$\begin{array}{r} -2x \quad -2x \\ \hline \end{array}$$

$$y = -2x - 2$$

$$m = -2$$

$$b = -2$$

