

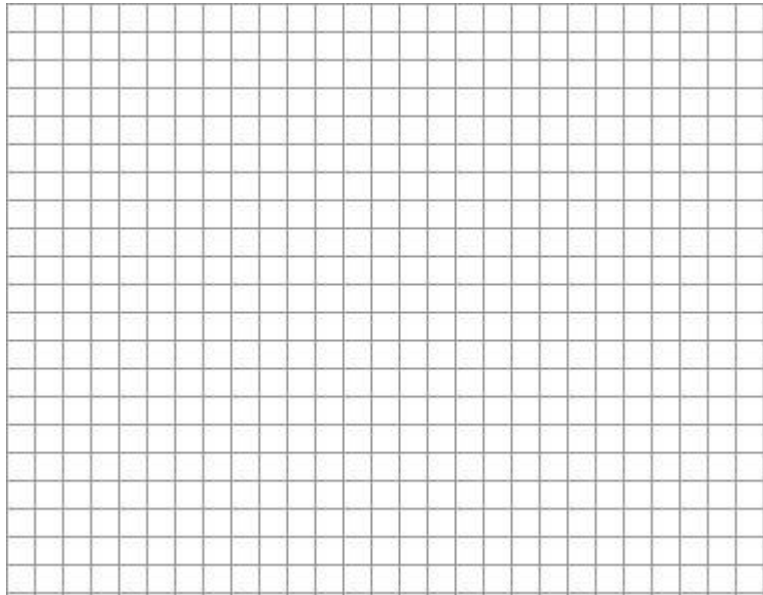
Lines and Slopes - Worksheet

NAME:

DATE:

1. Find the slope and the y -intercept of the line whose equation is $3(x - 2) + 2y = 6 - (y - 4)$.

2. Graph the equation of $2x + 3y = 0$.



Graphs - Worksheet

1. Find the graph of the equation in the standard viewing window.

(a) $y - 2x = 4$

(b) $y = .3x^2 + x - 4$

2. Graph the equation in a suitable square viewing window.

$$25(x - 5)^2 + 36(y + 4)^2 = 900$$

3. Use your minimum finder to approximate the x-coordinates of the lowest point on the graph of $y = x^3 - 2x + 5$ in the window $0 \leq x \leq 5$ and $-3 \leq y \leq 8$. The correct answer is

$$x = \sqrt{\frac{2}{3}} \cong 0.816496580928.$$

4. Use the zoom-in or a maximum/minimum finder to determine the highest and lowest point on the graph in the given window.

$$y = .07x^5 - .3x^3 + 1.5x^2 - 2$$

$$(-3 \leq x \leq 2)(-6 \leq y \leq 6)$$