Name:

Classwork: Happy New Year! Due at the end of the period.

Fill in the values in the blanks and circling the correct types.

$$1. \ y \le \frac{2}{3}x + 1$$

y-intercept b =

Line:

Solid (=)

Dashed (\neq)

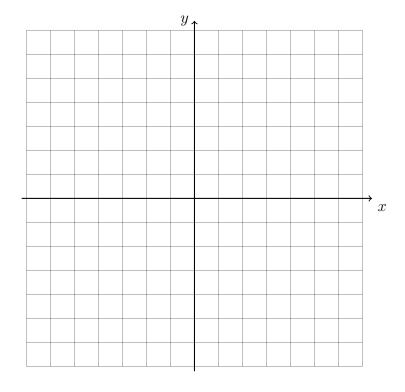
Slope

 $m = \underline{\hspace{1cm}}$

Shading:

Above (y >) Below (y <)

Graph the inequality (use a pencil and straight edge - 1 point)



2. Solve for y, then complete. x + 2y > 3

y-intercept = _____

Line:

Solid (=) Dashed (\neq)

Slope

Shading:

Above (y >) Below (y <)

3. Graph the two lines after filling in the values in the blanks.

$$y = 2x - 3$$

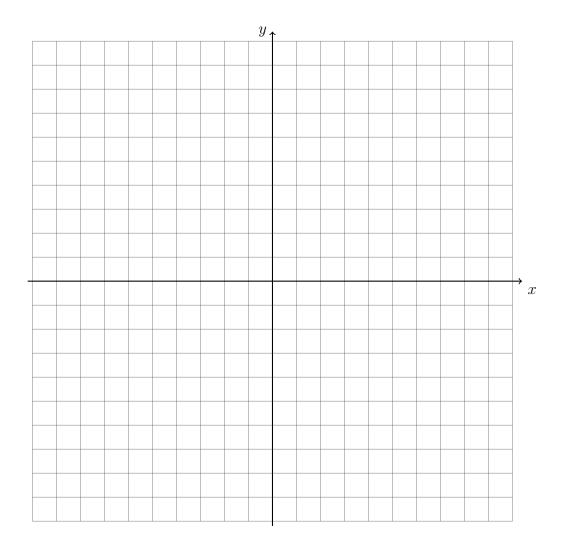
$$y = -\frac{1}{3}x + 4$$

- (a) y-intercept b = (a) y-intercept b =

$$m = \underline{\hspace{1cm}}$$

(b) Slope
$$m =$$
_____(b) Slope $m =$ _____

Label both lines and the solution to the system, the intersection, as a coordinate pair. (3 points) Use pencil for graph (1 point)

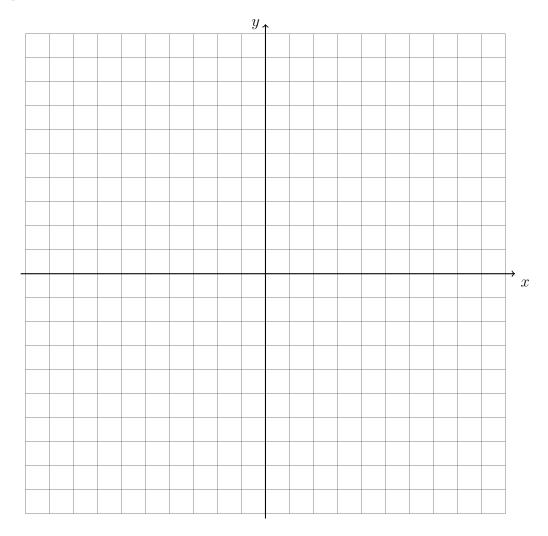


Graphing quadratic functions

4. Given the quadratic function $f(x) = x^2 - 3$, find the row differences.

x	f(x)
-3	6
-2	1
-1	-2
0	-3
1	-2
2	1
3	6

Graph the function as a line over the domain $-3 \le x \le 3$.



5. Graph the two lines after filling in the values in the blanks.

$$y = x - 3$$

$$x + y = 1$$

- (a) y-intercept b = (a) y-intercept b =

$$m =$$

(b) Slope
$$m =$$
_____(b) Slope $m =$ _____

Label both lines and the solution to the system, the intersection, as a coordinate pair. (3 points) Use pencil for graph (1 point)

