Classwork: Graphing inequalities
Due at the end of the period.

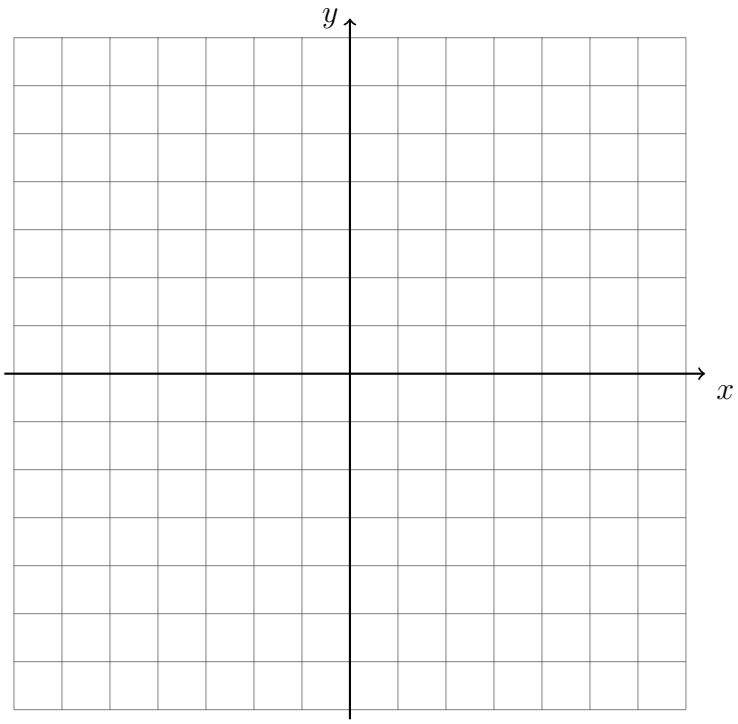
Fill in the values in the blanks and circling the correct types.

1. $y > \frac{4}{3}x - 3$

   y-intercept $b =$ _____ Line: Solid ($=$) Dashed ($\neq$)

   Slope $m =$ _____ Shading: Above ($y >$) Below ($y <$)

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



2. Solve for y, then complete. $4x + 2y \leq -2$

   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.

$y = -x + 5$

(a) y-intercept $b =$ _____

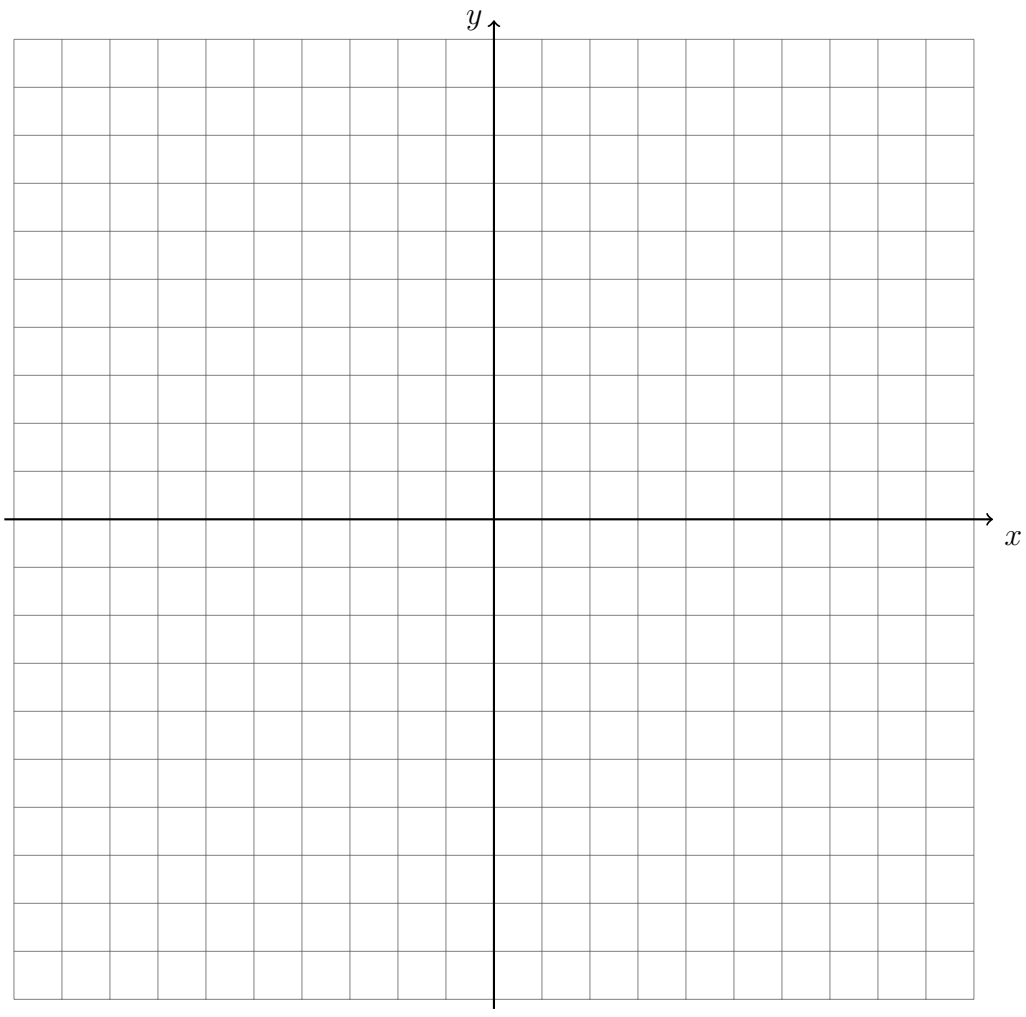
(b) Slope $m =$ _____

$y = \frac{3}{2}x - 5$

(a) y-intercept $b =$ _____

(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)

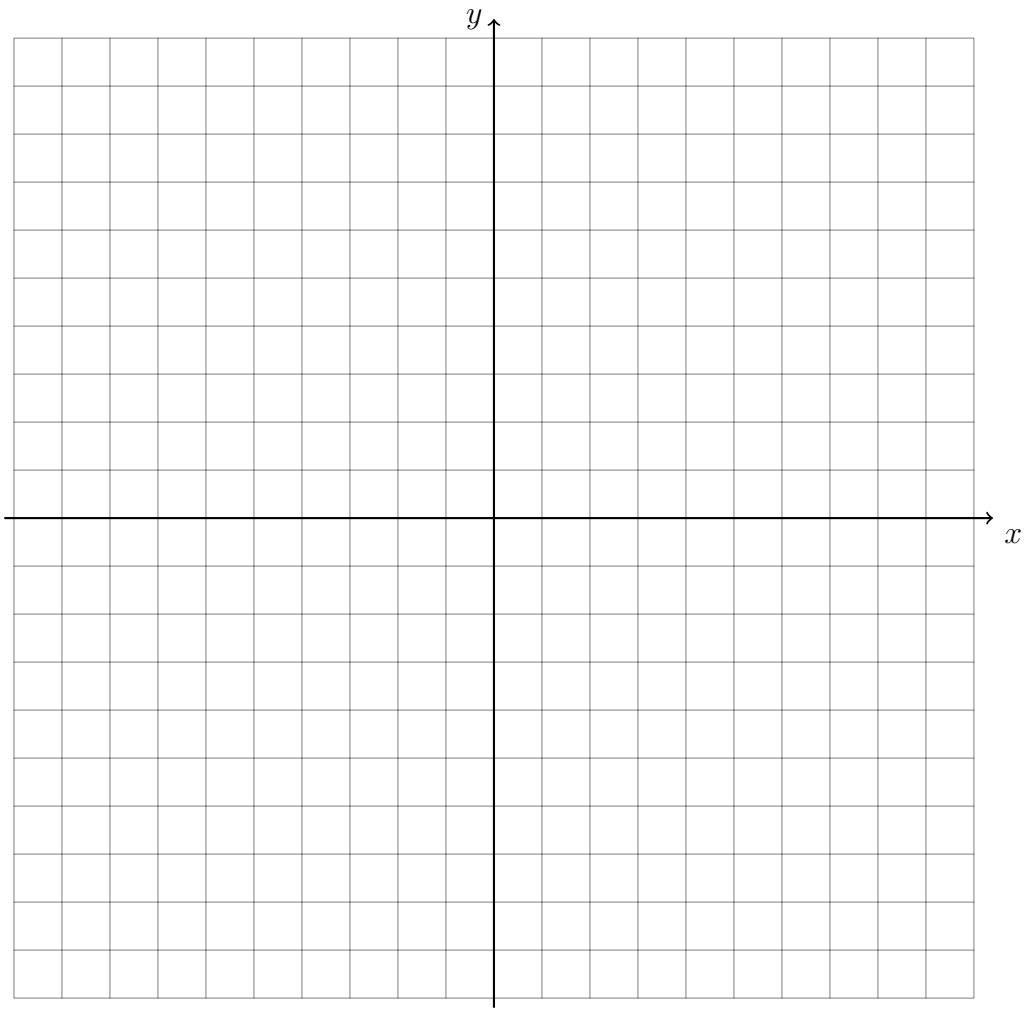


Graphing quadratic functions

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

x	$f(x)$
-2	8
-1	3
0	0
1	-1
2	0
3	3

Graph the function as a line over the domain $-2 \leq x \leq 3$.



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

$y = \frac{1}{2}x - 5$

(a) y-intercept $b =$ _____

(b) Slope $m =$ _____

$2x + y = 5$

(a) y-intercept $b =$ _____

(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)