BECA / Dr. Huson / Regents Prep: Graphs First and last name:
23 October 2024 Section:

1.4 Do Now: Graphing lines and finding intersections

1. Graph and label the two equations. Mark their intersection as an ordered pair.

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

   Write down the slope and y-intercept of the first equation.

   (a) $m =$

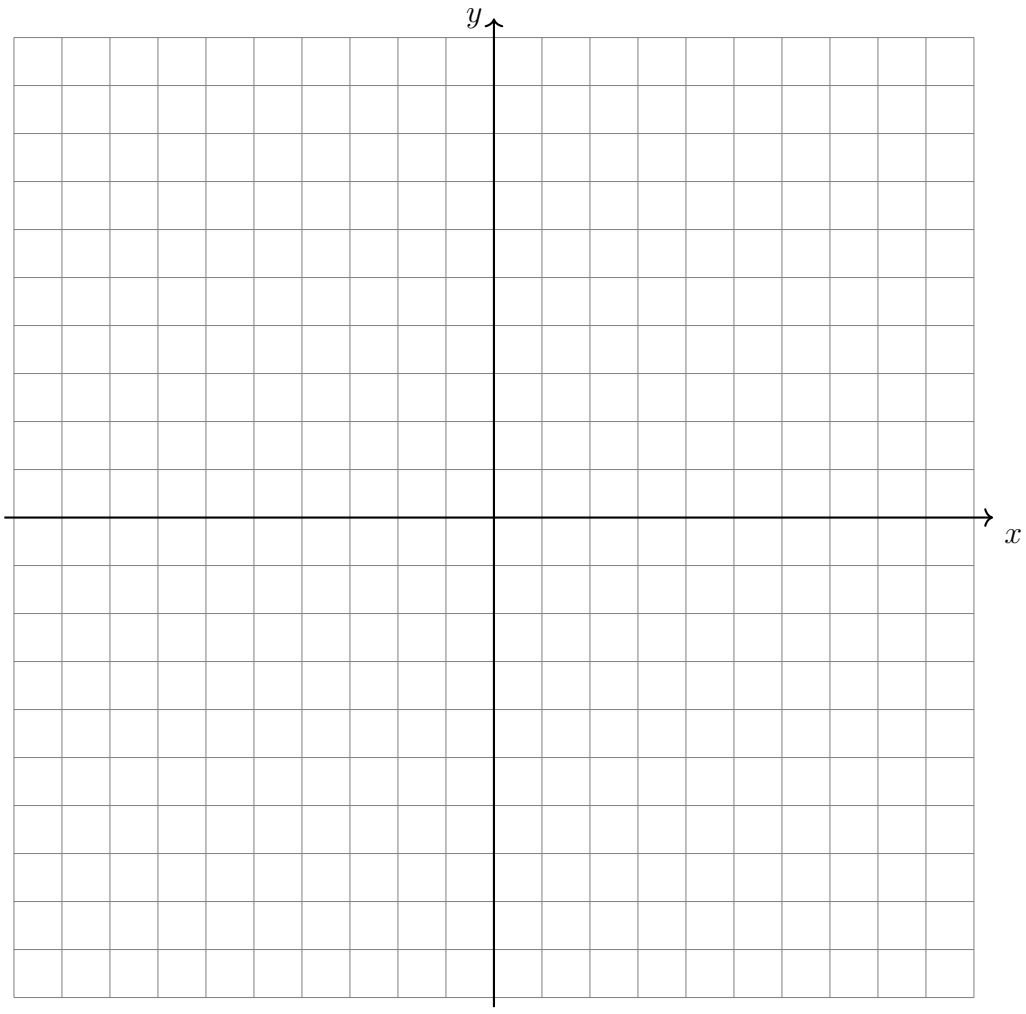
   (b) $b =$

   $2x + y = 5$

   Complete the two values in the table.

x	y
0	____
____	0

   Write as slope-intercept form, $y = mx + b$.



2. In the following problems, solve for the value of x, then check your answer.

   (a) $3x + 4 = x + 10$

   (b) $\frac{5}{6}x = 10$

   (c) $4x - 5 = x + 7$

   (d) $\frac{1}{3}(x - 6) = 2$

   (e) $\frac{1}{4}x - 5 = -3$

   (f) $\frac{3}{5}(x + 5) = x - 1$

3. Given the linear function $f(x) = \frac{3}{4}x + 4$.

   (a) Find $f(\frac{2}{3})$

   (b) $f(x) = 10$. Find x.