

Review Assignment

Use your notes, homework, each other, and me to help you review.

0. We learned about the Slope-Intercept Form, or $y=mx+b$. Write down all that you know about this equation.

1. Calculate the slope. Reduce to lowest terms:

a) $(14,90), (24, -55)$

b) $(-3,8), (-9,10)$

2. Determine the slope and y-intercept of each line by rearranging each equation to $y=mx+b$.

a) $y = \frac{3}{5}x - 6$

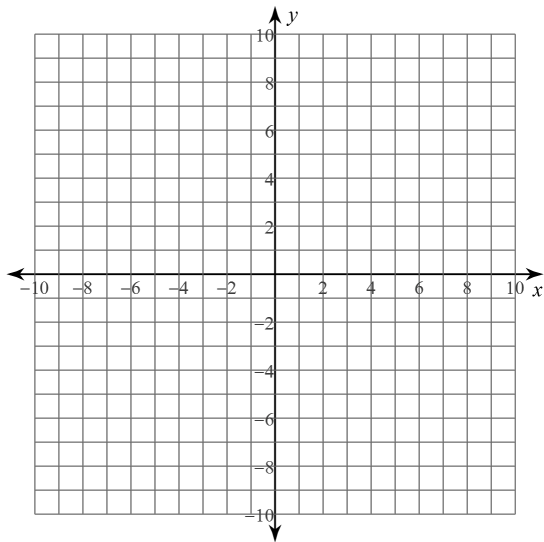
b) $3y = 9 + 15x$

c) $3x + 6y - 1 = 0$

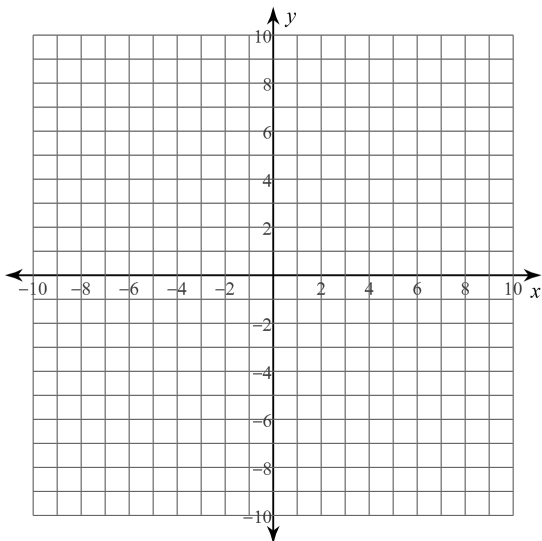
d) $\frac{1}{2}x + \frac{3}{4}y = \frac{5}{8}$ (hint: multiply by the common denominator)

3. Graph the lines on the grid provided. Label the lines 1 and 2.

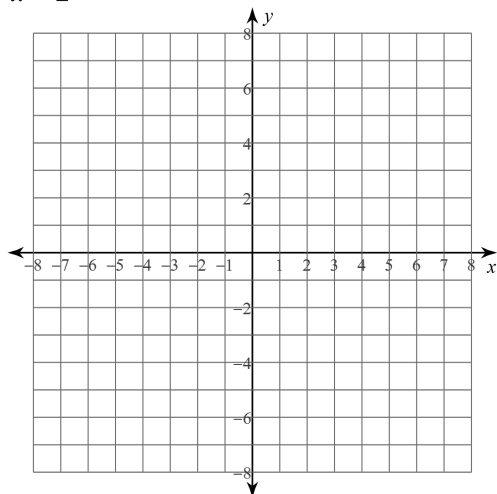
a) $y = \frac{2}{3}x - 7$
 $y = 4x + 3$



b) $x + 2y = 4$
 $4x - y = 7$



c) $y = -5$
 $x = 2$



4. Determine the slope perpendicular to each of the following:

a) $m = -5$

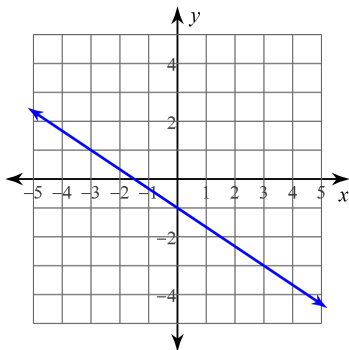
b) $m = \frac{2}{7}$

c) $m = \text{undefined}$

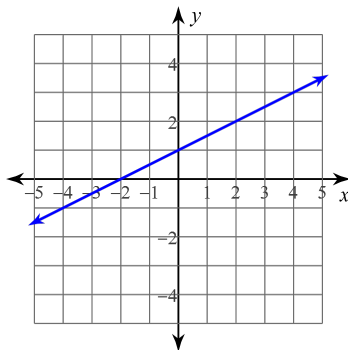
d) $m = \frac{-9}{100}$

5. For each question, determine the equation of the line in Slope-Intercept Form ($y=mx+b$)

a)



b)



c) $m = 5$ and goes through the point $(0, -3)$

d) $m = \frac{-3}{4}$ and goes through the point $(-4, 7)$

e) Goes through the points $(1, -5)$ and $(-3, 2)$

f) Parallel to $3x - 4y + 8 = 0$ and goes through the point $(8, 2)$

g) Perpendicular to $y = \frac{-5}{4}x - 6$ and has the same y-intercept as $7x + 4y - 8 = 0$

