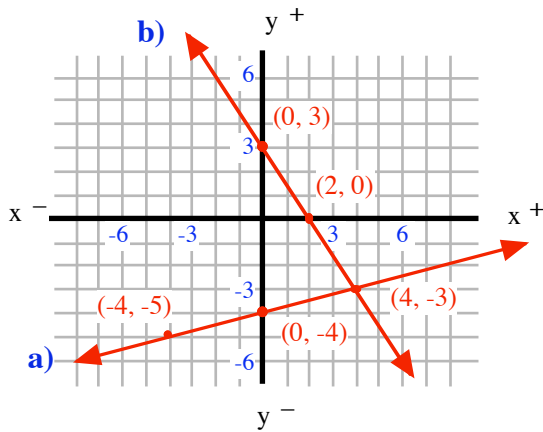
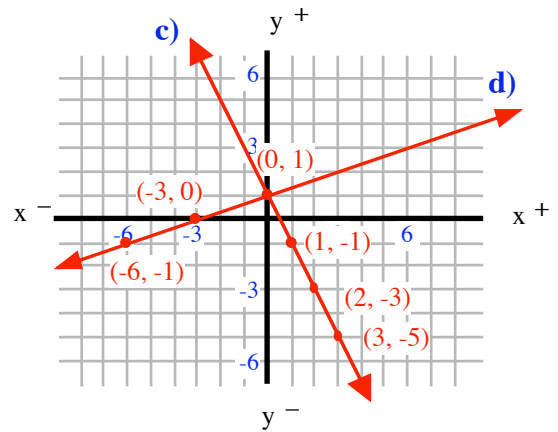


Section 8.3 Focus Exercise Answers

1.



The lines cross at **(4, -3)**.



The lines cross at **(0, 1)**.

2. Identify the x-intercept, the y-intercept and the slope of each line. Simplify the slope, if possible.

a) y-intercept (0, 5); x-intercept (-4, 0); slope, $m = \frac{5}{4}$

b) y-intercept (0, -6); x-intercept (2, 0); slope, $m = \frac{3}{1}$ or 3

c) y-intercept (0, 2); x-intercept (4, 0); slope, $m = -\frac{1}{2}$

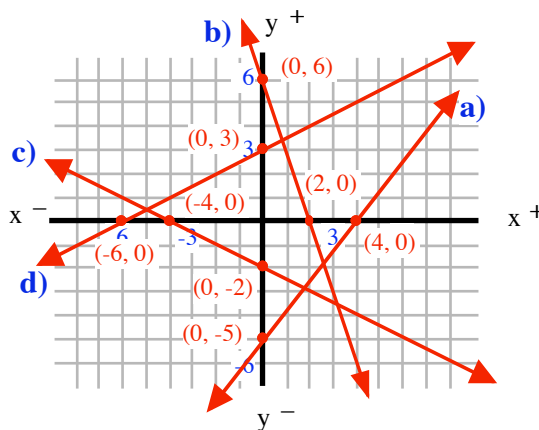
3.

a) $m = \frac{5}{4}$

b) $m = -\frac{3}{1}$ or -3

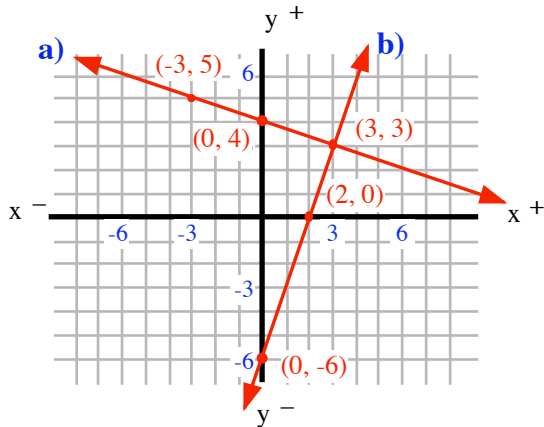
c) $m = -\frac{1}{2}$

d) $m = \frac{1}{2}$

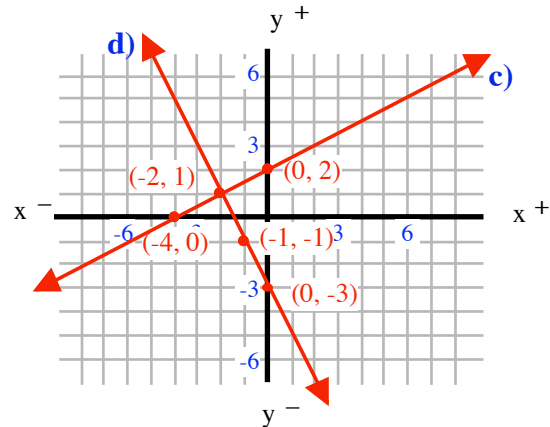


4. Identify the slope and the y-intercept of the line. Then use them to graph the line. Identify the point where they cross.

- | | | | |
|-----------------------|-----------------------------|----------------------|-------------|
| a) $m = -\frac{1}{3}$ | b) $m = 3$ or $\frac{3}{1}$ | c) $m = \frac{1}{2}$ | d) $m = -2$ |
| y-int: 4 | y-int: -6 | y-int: 2 | y-int: -3 |



The lines cross at **(3, 3)**.



The lines cross at **(-2, 1)**.

- | | | | |
|-------------------------------------------|-----------|------------------------------------------|-----------|
| 5. a) $m = -\frac{1}{3}$ | y-int: 4 | b) $m = \frac{3}{2}$ | y-int: 1 |
| Equation of line: $y = -\frac{1}{3}x + 4$ | | Equation of line: $y = \frac{3}{2}x + 1$ | |
| c) $m = -1$ | y-int: -3 | d) $m = 2$ | y-int: -1 |
| Equation of line: $y = -x - 3$ | | Equation of line: $y = 2x - 1$ | |