

## Section 8.2 Focus Exercise Answers

1. a)  $m = -2$ ;  $b = 1$

b)  $m = \frac{1}{4}$ ;  $b = -3$

c)  $m = -\frac{3}{8}$ ;  $b = 0$

d)  $m = -1$ ;  $b = \frac{1}{2}$

e)  $m = 1$ ;  $b = 0$

f)  $m = 6$ ;  $b = -3.8$

g)  $m = \frac{5}{2}$ ;  $b = -\frac{2}{3}$

h)  $m = 1$ ;  $b = 4$

2. a)  $(0, 6)$

b)  $(0, -4)$

c)  $(0, -\frac{1}{3})$

d)  $(0, 2.9)$

e)  $(0, 0)$

f)  $(0, -0.4)$

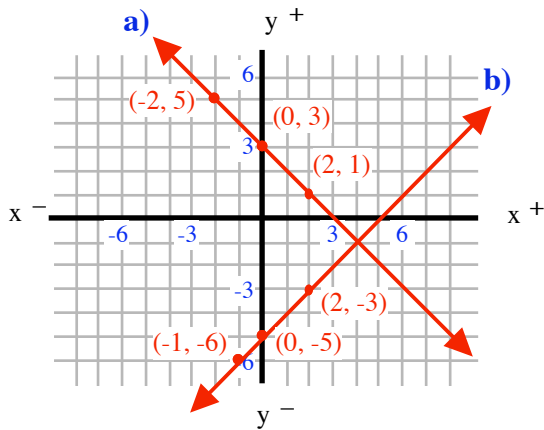
3. The lines shown are correct, but you may have gotten different points on the lines.

a) Three points:  $(0, 3)$ ,  $(-2, 5)$ , and  $(2, 1)$

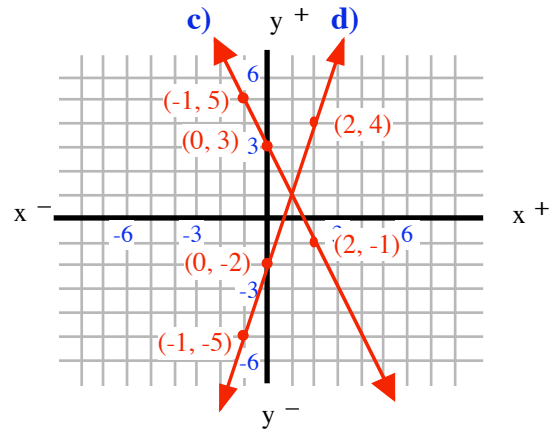
c) Three points:  $(0, 3)$ ,  $(-1, 5)$ , and  $(2, -1)$

b) Three points:  $(0, -5)$ ,  $(-1, -6)$ , and  $(2, -3)$

d) Three points:  $(0, -2)$ ,  $(-1, -5)$ , and  $(2, 4)$



(a) and (b) Point of intersection  **$(4, -1)$**



(c) and (d) Point of intersection  **$(1, 1)$**

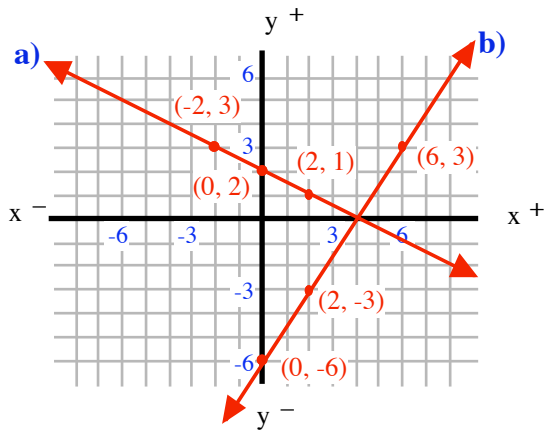
4. The lines shown are correct, but you may have gotten different points on the lines.

a) Three points:  $(0, 2)$ ,  $(2, 1)$ , and  $(-2, 3)$

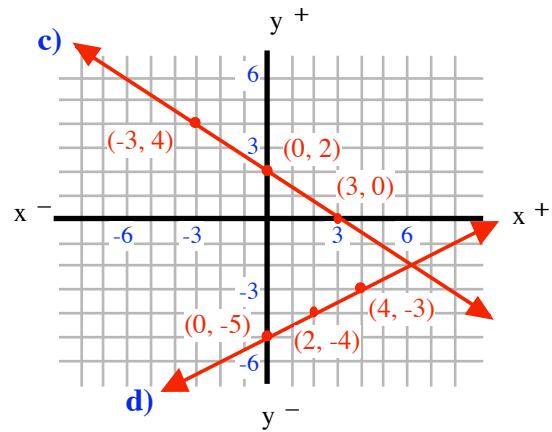
c) Three points:  $(0, 2)$ ,  $(3, 0)$ , and  $(-3, 4)$

b) Three points:  $(0, -6)$ ,  $(2, -3)$ , and  $(6, 3)$

d) Three points:  $(0, -5)$ ,  $(2, -4)$ , and  $(4, -3)$



(a) and (b) Point of intersection  **$(4, 0)$**



(c) and (d) Point of intersection  **$(6, -2)$**