

## Section 8.2 Focus Exercises

1. Identify the values of  $m$  and  $b$  from the given equation.

a)  $y = -2x + 1$

b)  $y = \frac{1}{4}x - 3$

c)  $y = -\frac{3}{8}x$

d)  $y = -x + \frac{1}{2}$

e)  $y = x$

f)  $y = 6x - 3.8$

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

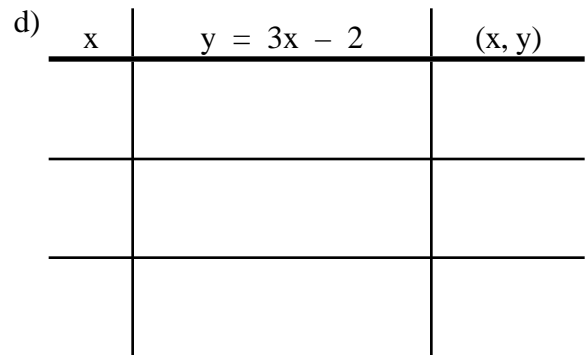
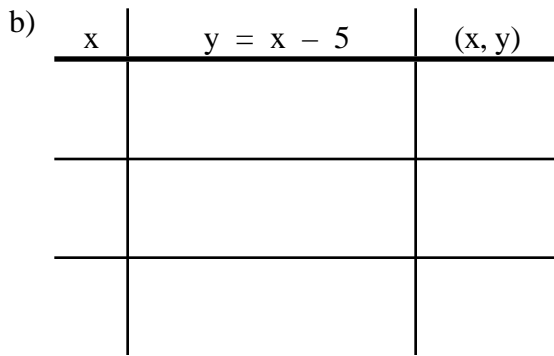
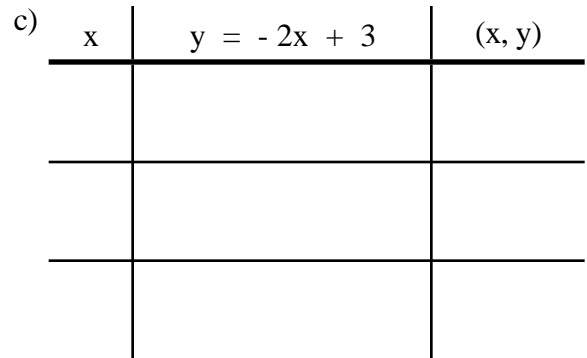
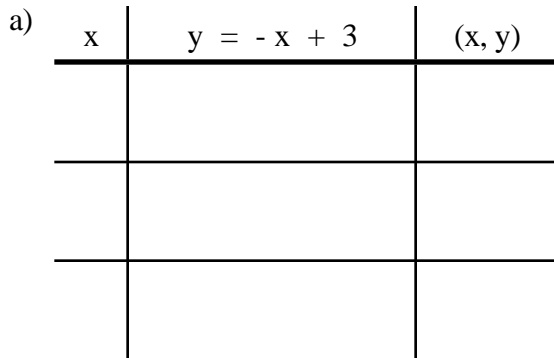
h)  $y = x + 4$

2. Given each linear equation, identify the y-intercept point.

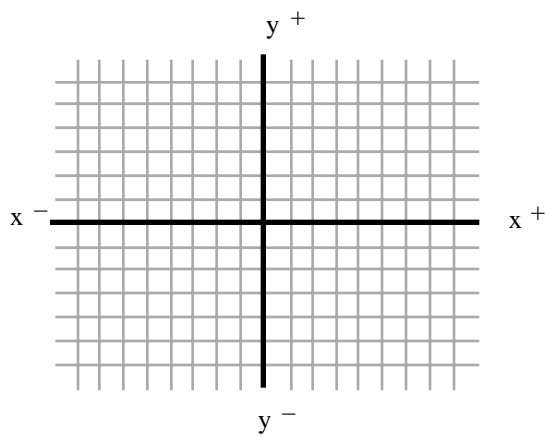
Linear Equation	y-intercept point
a) $y = 4x + 6$	( , )
b) $y = -2x - 4$	( , )
c) $y = \frac{4}{5}x - \frac{1}{3}$	( , )
d) $y = -3x + 2.9$	( , )
e) $y = x$	( , )
f) $y = -x - 0.4$	( , )

3. (i) Find three sets of ordered pairs as points in the x-y plane.  
(ii) Draw the line that passes through these points.  
(iii) Identify the point where they intersect.

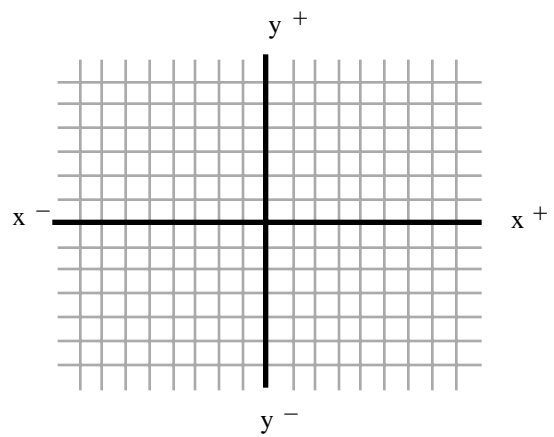
**Graph a pair of lines in each x-y plane.**



Use this graph for (a) and (b)



Use this graph for (c) and (d)



(a) and (b) Point of intersection (   ,   )

(c) and (d) Point of intersection (   ,   )

4. (i) Find three sets of ordered pairs as points in the x-y plane.  
(ii) Draw the line that passes through these points.  
(iii) Identify the point where they intersect.

**Graph a pair of lines in each x-y plane.**

a)

x	$y = -\frac{1}{2}x + 2$	(x, y)

c)

x	$y = -\frac{2}{3}x + 2$	(x, y)

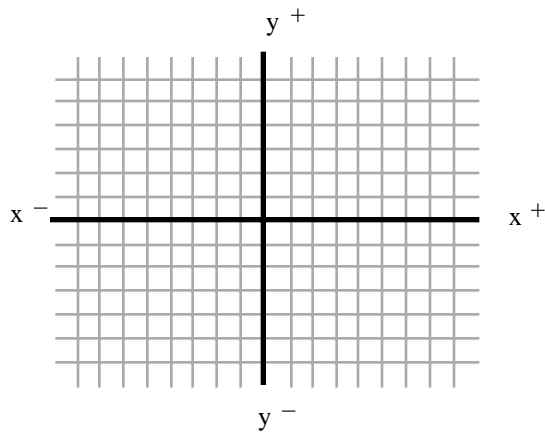
b)

x	$y = \frac{3}{2}x - 6$	(x, y)

d)

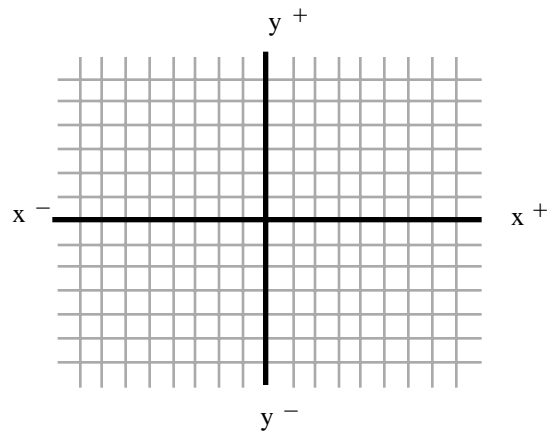
x	$y = \frac{1}{2}x - 5$	(x, y)

Use this graph for (a) and (b)



(a) and (b) Point of intersection (   ,   )

Use this graph for (c) and (d)



(c) and (d) Point of intersection (   ,   )