

# 6.1

## Write Linear Equations in Slope-Intercept Form (Cont.)

### Example

- a) Write an equation of the line that passes through the points  $(2, -1)$ ,  $(0, 6)$ .

### Example

- b) Write an equation of the line that passes through the points  $(3, -1)$ ,  $(0, -4)$ .

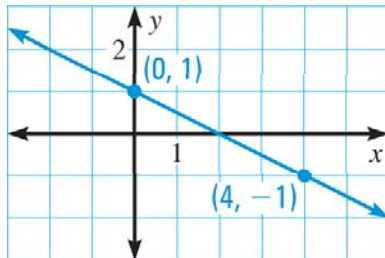
### Example

Find the value of  $m$  or  $b$  if the given line passes through the given point.

- a)  $y = 3x + b$  ;  $(-2, -7)$       b)  $y = mx + 5$  ;  $(1, 8)$

### Practice

- 1) Write an equation of the line shown.



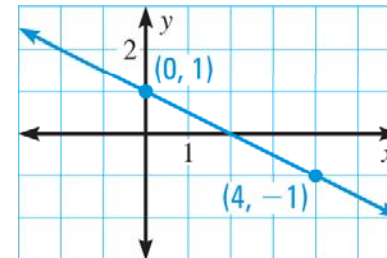
- 2) Write an equation of the line that passes through the points  $(0, -5)$ ,  $(4, -9)$ .

- 3) Find the value of  $m$  or  $b$  if the given line passes through the given point.

a)  $y = \frac{2}{3}x + b$ ;  $(-6, -9)$       b)  $y = mx - 3$ ;  $(-1, 7)$

### Practice

- 1) Write an equation of the line shown.



### Practice

- 2) Write an equation of the line that passes through the points  $(0, -5)$ ,  $(4, -9)$ .

### Practice

- 3) Find the value of  $m$  or  $b$  if the given line passes through the given point.

a)  $y = \frac{2}{3}x + b$ ;  $(-6, -9)$       b)  $y = mx - 3$ ;  $(-1, 7)$