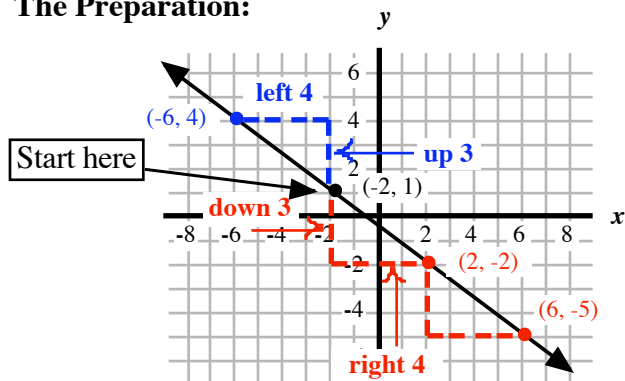


Example 6: Draw the graph of the line that has slope $m = -\frac{3}{4}$ and passes through the point $(-2, 1)$.

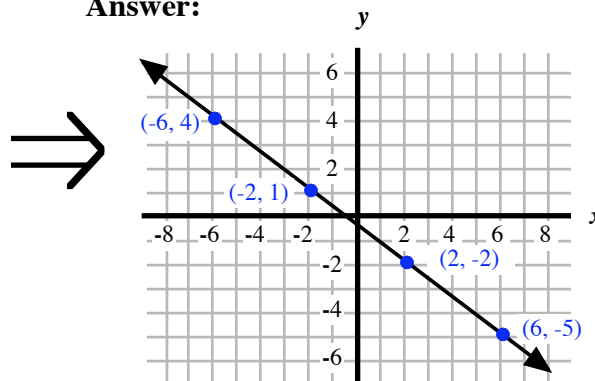
Procedure: We can think of the slope in two ways: as $m = \frac{-3}{4} = \frac{\text{down } 3}{\text{right } 4}$ and as $m = \frac{3}{-4} = \frac{\text{up } 3}{\text{left } 4}$.

Using $m = \frac{\text{down } 3}{\text{right } 4}$ we get both $(2, -2)$ and $(6, -5)$; using $m = \frac{\text{up } 3}{\text{left } 4}$ we get $(-6, 4)$.

The Preparation:



Answer:



You Try It 7

Draw the graph of the line that has the given slope and passes through the given point. Use Example 6 as a guide.

a) Given slope $m = \frac{1}{4}$; given point: $(-2, -3)$.

b) Given slope $m = -3$; given point: $(1, 2)$.

