Give the slope and y-intercept of the given line and then graph it.

- 8. 2x-3y=6
- 9. Y=-2x

Solution.

8. An equation for the line in point/slope form is

$$y - y_0 = k(x - x_0),$$

$$y = kx + y_0 - kx_0.$$

In our case we have

$$2x - 3y = 6,$$

$$y = \frac{2}{3}x - 2.$$

Then  $k = \frac{2}{3}$ . If x = 0 then y = -2. And finally we graph this line (figure 1).

9. In this case we have

$$y = -2x$$
.

Then k = -2. If x = 0 then y = 0. And finally we graph this line (figure 2).

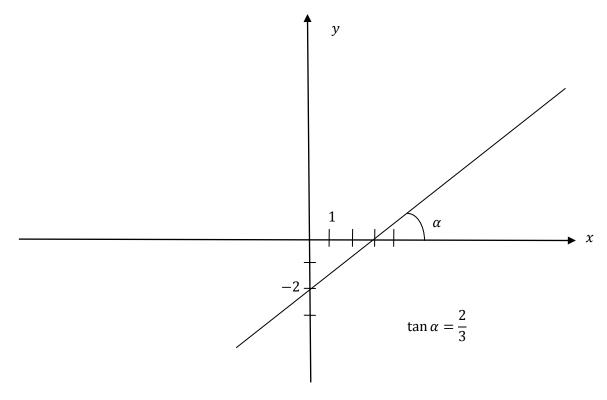


Figure 1.

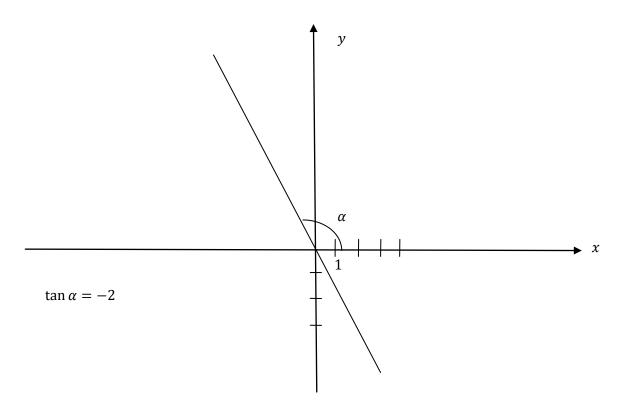


Figure 2