

## Exercise 61

Graph the linear function  $f$  on a domain of  $[-0.1, 0.1]$  for the function whose slope is 75 and  $y$ -intercept is  $-22.5$ . Label the points for the input values of  $-0.1$  and  $0.1$ .

### Solution

The equation of the linear function with slope 75 and  $y$ -intercept  $-22.5$  is

$$y = 75x - 22.5.$$

If the input is  $x = -0.1$ , then the output is

$$y = 75(-0.1) - 22.5 = -30.$$

If the input is  $x = 0.1$ , then the output is

$$y = 75(0.1) - 22.5 = -15.$$

The function is plotted below versus  $x$  on the domain  $[-0.1, 0.1]$ .

