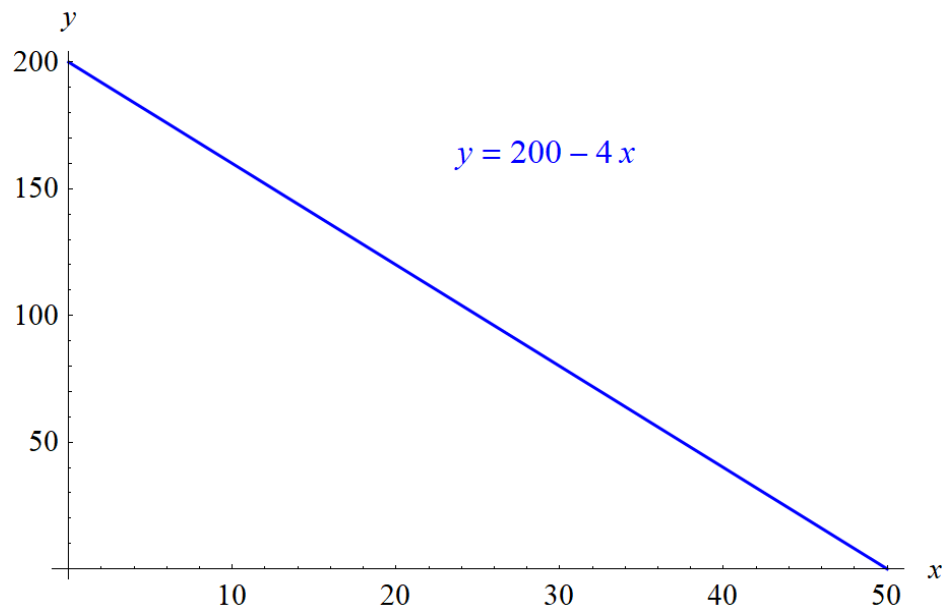


Exercise 14

The manager of a weekend flea market knows from past experience that if he charges x dollars for a rental space at the market, then the number y of spaces he can rent is given by the equation $y = 200 - 4x$.

- (a) Sketch a graph of this linear function. (Remember that the rental charge per space and the number of spaces rented can't be negative quantities.)
- (b) What do the slope, the y -intercept, and the x -intercept of the graph represent?

Solution



The y -intercept, at $y = 200$, is the number of merchants interested in selling at the manager's market. The x -intercept, at $x = 50$, is the price to charge in which no spaces will be rented. The slope indicates that four less spaces will be rented for each dollar the manager charges.