

1.2 Videos Guide

1.2a

- Types of functions
 - Constant
 - Linear
 - Squaring
 - Square root
 - Cubing
 - Cube root
 - Reciprocal
 - Reciprocal square
 - Absolute value
 - Greatest integer
 - Trigonometric

1.2b

Exercises:

- 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?
- The manager of a furniture factory finds that it costs \$2200 to manufacture 100 chairs in one day and \$4800 to produce 300 chairs in one day.
 - (a) Express the cost as a function of the number of chairs produced, assuming that it is linear. Then sketch the graph.
 - (b) What is the slope of the graph and what does it represent?
 - (c) What is the y -intercept of the graph and what does it represent?