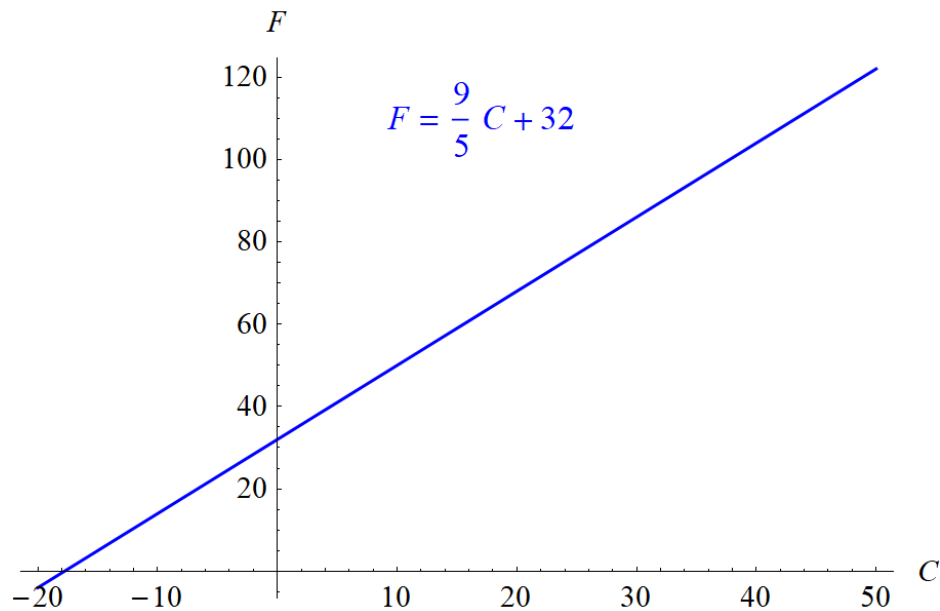


Exercise 15

The relationship between the Fahrenheit (F) and Celsius (C) temperature scales is given by the linear function $F = \frac{9}{5}C + 32$.

- (a) Sketch a graph of this function.
- (b) What is the slope of the graph and what does it represent? What is the F -intercept and what does it represent?

Solution



The slope of the graph is $9/5 = 1.8$, and it represents the number of Fahrenheit degrees gained for an increase of 1°C . The F -intercept is $(0, 32)$, and it represents the temperature in Fahrenheit at 0°C .