

Exercise 1.3.125 The annual fixed cost of owning a small sedan are \$4352, assuming the car is completely paid for. The cost to drive the car is approximately \$0.14 per mile. Write a linear equation that relates the cost  $C$  and the number  $x$  of miles driven annually.

Solution

With  $x$  as the number of miles driven, the cost to drive the car  $x$  miles is  $\$0.14x$  (this is the "variable cost"). So the total cost is the fixed cost plus the variable cost!

$$C = \$(0.14x + 4352). \quad \square$$