Exercise 88

The amount of garbage, G, produced by a city with population p is given by $G = f(p)$. G is measured in tons per week, and p is measured in thousands of people.

(a) The town of Tola has a population of 40,000 and produces 13 tons of garbage each week. Express this information in terms of the function f.

(b) Explain the meaning of the statement $f(5) = 2$.

Solution

(a) $13 = f(40)$

(b) $f(5) = 2$ indicates that a population of 5000 people produces 2 tons of garbage per week.