Exercise 89

The number of cubic yards of dirt, D, needed to cover a garden with area a square feet is given by $D = g(a)$.

(a) A garden with area 5000 ft^2 requires 50 yd^3 of dirt. Express this information in terms of the function g.

(b) Explain the meaning of the statement $g(100) = 1$.

Solution

(a) $50 = g(5000)$

(b) $g(100) = 1$ indicates that a garden of 100 square feet needs 1 cubic yard of dirt for it to be covered.