Introduction to Algebra Ex 8.2 Q4

Answer :

Present number of bacteria in a culture = x

Number of bacteria in the culture after one week = x^2

Number of bacteria in the culture after two weeks = $\left(x^2\right)^2 = x^4$

Introduction to Algebra Ex 8.2 Q5

Answer :

Breadth of the given rectangle = x cm

Length of the rectangle = $\frac{2}{3}x$ cm

$\therefore$ Area of the rectangle = $\frac{2}{3}x \times x = \frac{2}{3}x^2$ cm^2

Introduction to Algebra Ex 8.2 Q6

Answer :

Total number of chairs = Number of rows $\times$ Number of chairs in each row

$$= x \times x^2$$
$$= x^3$$

*********** END *********