



Introduction to Algebra Ex 8.2 Q1

Answer :

$$(i) a^{15}$$

$$(ii) 8b^3a^4 = 8a^4b^3$$

$$(iii) 5a^3b^2c^3$$

$$(iv) 7a^8b^5$$

$$(v) 4a^5b^{12}c^{15}$$

Introduction to Algebra Ex 8.2 Q2

Answer :

$$(i) a \times a \times b \times b \times b \times b \times b$$

$$(ii) 2 \times 2 \times 2 \times x \times x \times x$$

$$(iii) 7 \times a \times a \times a \times b \times b \times b \times b$$

$$(iv) 3 \times 5 \times a \times a \times a \times a \times a \times a \times a \times a \times a \times b \times b \times b \times b \times b \times b \times b \times b \times c \times c \times c \times c \times c \times c$$

$$(v) 2 \times 3 \times 5 \times x \times x \times x \times x \times y \times y \times y \times y \times z \times z \times z \times z \times z$$

$$(vi) 43 \times p \times p \times p \times p \dots 10 \text{ times} \times q \times q \dots 5 \text{ times} \times r \times r \times r \dots 15 \text{ times}$$

$$(vii) 17 \times p \times p \times p \dots 12 \text{ times} \times q \times q \times q \dots 20 \text{ times}$$

Introduction to Algebra Ex 8.2 Q3

Answer :

$$\begin{aligned} \text{(i)} \quad & 4 \times 6 \times a^3 \times a \times b^2 \times c^2 \\ & = 24a^4b^2c^2 \end{aligned}$$

$$\begin{aligned} \text{(ii)} \quad & 5 \times 3 \times 7 \times x \times x^2 \times y \times y \times y^2 \\ & = 105x^3y^4 \end{aligned}$$

$$\begin{aligned} \text{(iii)} \quad & 3 \times 2 \times a^3 \times a \times a^2 \times b^2 \times b^2 \\ & = 6a^6b^4 \end{aligned}$$

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