Q.1 If  $A = \{7, 8\}$  and  $B = \{2, 4, 6\}$ , find

(a)  $A \times B$ 

(b)  $B \times A$ 

(c)  $A \times A$ 

(d)  $B \times B$ .

Q.2 If  $A \times B = \{(p, x), (p, z), (q, x), (q, z)\}$ . Find A and B.

Q.3 If  $A = \{2, 4, 6\}$  and  $B = \{3, 6\}$  and  $C = \{1, 5, 6\}$ . Find  $(A \times B) \cap (B \times C)$ .

Q.4 Let A and B be two sets such that  $A \times B$  consists of 6 elements. If

three elements of A  $\times$  B are (X, 6), (Y, 7), (Z, 7), then find B  $\times$  A.

Q.5 Verify that  $A \times (B \cup C) = (A \times B) \cup (A \times C)$ , if  $A = \{1, 2, 3\}$ ,  $B = \{4\}$ 

and  $C = \{5\}$ .

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ACADEMY

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