



Factorizations Ex 7.3 Q1

**Answer :**

$$\begin{aligned} & 6x(2x - y) + 7y(2x - y) \\ &= (6x + 7y)(2x - y) \quad [\text{Taking } (2x - y) \text{ as the common factor}] \end{aligned}$$

Factorizations Ex 7.3 Q2

**Answer :**

$$\begin{aligned} & 2r(y - x) + s(x - y) \\ &= 2r(y - x) - s(y - x) \quad [\because (x - y) = -(y - x)] \\ &= (2r - s)(y - x) \quad [\text{Taking } (y - x) \text{ as the common factor}] \end{aligned}$$

Factorizations Ex 7.3 Q3

**Answer :**

$$\begin{aligned} & 7a(2x - 3) + 3b(2x - 3) \\ &= (7a + 3b)(2x - 3) \quad [\text{Taking } (2x - 3) \text{ as the common factor}] \end{aligned}$$

Factorizations Ex 7.3 Q4

**Answer :**

$$\begin{aligned} & 9a(6a - 5b) - 12a^2(6a - 5b) \\ &= (9a - 12a^2)(6a - 5b) \quad [\text{Taking } (6a - 5b) \text{ as the common factor}] \\ &= 3a(3 - 4a)(6a - 5b) \quad [\text{Taking } 3a \text{ as the common factor of the quadratic } (9a - 12a^2)] \end{aligned}$$

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