



Factorizations Ex 7.3 Q5

**Answer :**

$$\begin{aligned} & 5(x-2y)^2 + 3(x-2y) \\ &= [5(x-2y) + 3](x-2y) \quad [\text{Taking } (x-2y) \text{ as the common factor}] \\ &= (5x-10y+3)(x-2y) \end{aligned}$$

Factorizations Ex 7.3 Q6

**Answer :**

$$\begin{aligned} & 16(2l-3m)^2 - 12(3m-2l) \\ &= 16(2l-3m)^2 + 12(2l-3m) \quad [\because (3m-2l) = -(2l-3m)] \\ &= [16(2l-3m) + 12](2l-3m) \quad [\text{Taking } (2l-3m) \text{ as the common factor}] \\ &= 4[4(2l-3m) + 3](2l-3m) \quad \{\text{Taking 4 as the common factor of } [16(2l-3m) + 12]\} \\ &= 4(8l-12m+3)(2l-3m) \end{aligned}$$

Factorizations Ex 7.3 Q7

**Answer :**

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

Factorizations Ex 7.3 Q8

**Answer :**

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

Factorizations Ex 7.3 Q9

**Answer :**

$$\begin{aligned} & (x-y)^2 + (x-y) \\ &= (x-y)(x-y) + (x-y) \quad [\text{Taking } (x-y) \text{ as the common factor}] \\ &= (x-y+1)(x-y) \end{aligned}$$

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