



Factorizations Ex 7.3 Q13

**Answer :**

$$\begin{aligned} & x^3(a-2b) + x^2(a-2b) \\ &= (x^3 + x^2)(a-2b) \quad [\text{Taking } (a-2b) \text{ as the common factor}] \\ &= x^2(x+1)(a-2b) \quad [\text{Taking } x^2 \text{ as the common factor of } (x^3 + x^2)] \end{aligned}$$

Factorizations Ex 7.3 Q14

**Answer :**

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

Factorizations Ex 7.3 Q15

**Answer :**

$$\begin{aligned} & 4(x+y)(3a-b) + 6(x+y)(2b-3a) \\ &= 2(x+y)[2(3a-b) + 3(2b-3a)] \quad \{\text{Taking } [2(x+y)] \text{ as the common factor}\} \\ &= 2(x+y)(6a-2b+6b-9a) \\ &= 2(x+y)(4b-3a) \end{aligned}$$

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