



Factorizations Ex 7.3 Q10

Answer :

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

Factorizations Ex 7.3 Q11

Answer :

$$\begin{aligned} & a(x-y) + 2b(y-x) + c(x-y)^2 \\ &= a(x-y) - 2b(x-y) + c(x-y)^2 \quad [\because (y-x) = -(x-y)] \\ &= [a - 2b + c(x-y)](x-y) \\ &= (a - 2b + cx - cy)(x-y) \end{aligned}$$

Factorizations Ex 7.3 Q12

Answer :

$$\begin{aligned} & -4(x-2y)^2 + 8(x-2y) \\ &= [-4(x-2y) + 8](x-2y) \quad [\text{Taking } (x-2y) \text{ as the common factor}] \\ &= 4[-(x-2y) + 2](x-2y) \quad \{\text{Taking 4 as the common factor of } [-4(x-2y) + 8]\} \\ &= 4(2y - x + 2)(x-2y) \end{aligned}$$

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