Factorizations Ex 7.3 Q5

Answer :

$$5(x-2y)^2+3(x-2y)$$
$$=[5(x-2y)+3](x-2y) \quad [Taking\ (x-2y)\ as\ the\ common\ factor]$$
$$=(5x-10y+3)(x-2y)$$

Factorizations Ex 7.3 Q6

Answer :

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

Factorizations Ex 7.3 Q7

Answer :

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

Factorizations Ex 7.3 Q8

Answer :

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

Factorizations Ex 7.3 Q9

Answer :

$$(x-y)^2+(x-y)$$
$$=(x-y)(x-y)+(x-y) \quad [Taking\ (x-y)\ as\ the\ common\ factor]$$
$$=(x-y+1)(x-y)$$

********** END **********