Factorizations Ex 7.3 Q13

Answer :

$$x^3(a-2b)+x^2(a-2b)$$
$$=(x^3+x^2)(a-2b) \quad [Taking\ (a-2b)\ as\ the\ common\ factor]$$
$$=x^2(x+1)(a-2b) \quad [Taking\ x^2\ as\ the\ common\ factor\ of\ (x^3+x^2)]$$

Factorizations Ex 7.3 Q14

Answer :

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

Factorizations Ex 7.3 Q15

Answer :

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

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