

Factorizations Ex 7.3 Q13

Answer:

$$egin{aligned} x^3ig(a-2big) + x^2ig(a-2big) \ &= ig(x^3+x^2ig)ig(a-2big) & ig[Takingig(a-2big)\ as\ the\ common\ factorig] \ &= x^2ig(x+1ig)ig(a-2big) & ig[Taking\ x^2\ as\ the\ common\ factor\ of\ ig(x^3+x^2ig)ig] \end{aligned}$$

Factorizations Ex 7.3 Q14

Answer:

$$(2x-3y)(a+b) + (3x-2y)(a+b)$$

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

Factorizations Ex 7.3 Q15

Answer

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

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