

Exercise 2E

Question 24:

ab $(x^2 + y^2)$ - $xy (a^2 + b^2)$ = $abx^2 + aby^2$ - $a^2xy - b^2xy$ = abx^2 - $a^2xy + aby^2$ - b^2xy = ax (bx - ay) + by(ay - bx)= (bx - ay) (ax - by)

Question 25:

 $a^{2} + ab (b + 1) + b^{3}$ $= a^{2} + ab^{2} + ab + b^{3}$ $= a^{2} + ab + ab^{2} + b^{3}$ $= a (a + b) + b^{2} (a + b)$ $= (a + b) (a + b^{2})$

Question 26:

 $a^{3} + ab (1 - 2a) - 2b^{2}$ = $a^{3} + ab - 2a^{2}b - 2b^{2}$ = $a (a^{2} + b) - 2b (a^{2} + b)$ = $(a^{2} + b) (a - 2b)$

Question 27:

 $2a^{2} + bc - 2ab - ac$ = $2a^{2} - 2ab - ac + bc$ = 2a (a - b) - c (a - b)= (a - b) (2a - c)

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