

Exercise 2F

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Question 21:
4x^2 - 9y^2 - 2x - 3y
= (2x)^2 - (3y)^2 - (2x + 3y)
= (2x + 3y) (2x - 3y) - (2x + 3y)
[Since a^2 - b^2 = (a+b)(a-b)]
= (2x + 3y) (2x - 3y - 1)
Question 22:
x^4 - 1
=(x^2)^2-1^2
= (x^2 + 1) (x^2 - 1)
= (x^2 + 1) (x + 1) (x - 1)
[Since a^2 - b^2 = (a+b)(a-b)]
Question 23:
a - b - a^2 + b^2
= (a - b) - (a^2 - b^2)
= (a - b) - (a - b) (a + b)
[Since a^2 - b^2 = (a+b)(a-b)]
= (a - b) (1 - a - b)
Question 24:
x<sup>4</sup> - 625
=(x^2)^2-(25)^2
=(x^2+25)(x^2-25)
[Since a^2 - b^2 = (a+b)(a-b)]
=(x^2+25)(x^2-5^2)
=(x^2+25)(x+5)(x-5)
[Since a^2 - b^2 = (a+b)(a-b)]
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********* END *******