

Exercise 2F

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Question 6:
20x^2 - 45
=5(4x^2-9)
= 5[(2x)^2 - (3)^2]
= 5 (2x + 3) (2x - 3)
[Since a^2 - b^2 = (a+b)(a-b)]
Question 7:
3x^3 - 48x
= 3x (x^2 - 16)
= 3x [(x)^2 - (4)^2]
= 3x (x + 4) (x - 4)
[Since a^2 - b^2 = (a+b)(a-b)]
Question 8:
2 - 50x^2
= 2 (1 - 25x^2)
= 2[(1)^2 - (5x)^2]
= 2 (1 + 5x) (1 - 5x)
[Since a^2 - b^2 = (a+b)(a-b)]
Question 9:
27a^2 - 48b^2
= 3 (9a^2 - 16b^2)
= 3[(3a)^2 - (4b)^2]
= 3(3a + 4b) (3a - 4b)
[Since a^2 - b^2 = (a+b)(a-b)]
Question 10:
x - 64x^3
= x (1 - 64x^2)
= x[(1)^2 - (8x)^2]
= x (1 + 8x) (1 - 8x)
[Since a^2 - b^2 = (a+b)(a-b)]
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********* END ********