

Mathematics

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(Chapter – 2) (Polynomials)(Exemplar Problems)

(Class – IX)

Exercise 2.1

Write the correct answer in each of the following:

Question 16:

The factorisation of $4x^2 + 8x + 3$ is

(A) $(x + 1)(x + 3)$

(B) $(2x + 1)(2x + 3)$

(C) $(2x + 2)(2x + 5)$

(D) $(2x - 1)(2x - 3)$

Answer 16:

(B) $(2x + 1)(2x + 3)$

Solution:

Given Polynomial: $4x^2 + 8x + 3$

$$= 4x^2 + 6x + 2x + 3$$

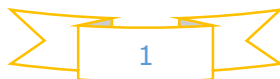
[By Splitting middle term]

$$= 2x(2x + 3) + 1(2x + 3)$$

$$= (2x + 3)(2x + 1)$$



Hence, the option (B) is correct.



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