

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 15:

The value of $249^2 - 248^2$ is

(A) 1²

(B) 477

(C) 487

(D) 497

Answer 15:

(D) 497

Solution:

Given expression: $249^2 - 248^2$

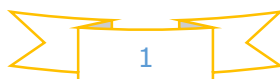
$$= (249 - 248) \times (249 + 248)$$

$$[\because a^2 - b^2 = (a - b)(a + b)]$$

$$= 1 \times 497$$

$$= 497$$

Hence, the option (D) is correct.



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