

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 1:

Which one of the following is a polynomial?

(A) $\frac{x^2}{2} - \frac{2}{x^2}$

(B) $\sqrt{2x - 1}$

(C) $x^2 + \frac{3x^3}{\sqrt{x}}$

(D) $\frac{x-1}{x+1}$

 **Answer 1:**

(C) $x^2 + \frac{3x^3}{\sqrt{x}}$

Solution:

$$x^2 + \frac{3x^3}{\sqrt{x}} = x^2 + \frac{3x\sqrt{x}}{\sqrt{x}} = x^2 + 3x$$

The exponent of the variable after simplification is a whole number, so it is a polynomial.

Hence, the option (C) is correct.

