

Mathematics

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

(Class – IX)

Exercise 2.3

Question 1:

Classify the following polynomials as polynomials in one variable, two variables etc.

(i) $x^2 + x + 1$

(ii) $y^3 - 5y$

(iii) $xy + yz + zx$

(iv) $x^2 - 2xy + y^2 + 1$

Answer 1:

(i) $x^2 + x + 1$

It is a polynomial in one variable (x is the only variable).

(ii) $y^3 - 5y$

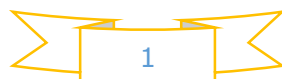
It is a polynomial in one variable (y is the only variable).

(iii) $xy + yz + zx$

It is a polynomial in three variables (x , y and z are the variables).

(iv) $x^2 - 2xy + y^2 + 1$

It is a polynomial in two variables (x and y are the variables).



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