

# Mathematics

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

(Class – IX)

## Exercise 2.3

### Question 5:

Classify the following as a constant, linear, quadratic and cubic polynomials:

(i)  $2 - x^2 + x^3$

(ii)  $3x^3$

(iii)  $5t - \sqrt{7}$

(iv)  $4 - 5y^2$

(v) 3

(vi)  $2 + x$

(vii)  $y^3 - y$

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

(ix)  $t^2$

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

### Answer 5:

*Constant Polynomial:* A polynomial of degree 0

*Linear Polynomial:* A polynomial of degree 1

*Quadratic Polynomial:* A polynomial of degree 2

*Cubic Polynomial:* A polynomial of degree 3

(i) Cubic

(ii) Cubic

(iii) Linear

(iv) Quadratic

(v) Constant

(vi) Linear

(vii) Cubic

(viii) Quadratic

(ix) Quadratic

(x) Linear

