

Mathematics

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

(Class – IX)

Exercise 2.3

Question 2:

Determine the degree of each of the following polynomials:

(i) $2x - 1$

(ii) -10

(iii) $x^3 - 9x + 3x^5$

(iv) $y^3 (1 - y^4)$

Answer 2:

The maximum exponent of the variable of a polynomial is the degree of polynomial.

(i) $2x - 1$

The maximum exponent of the variable is 1. So, the degree is 1.

(ii) $-10 = -10x^0$

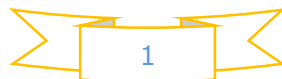
The maximum exponent of the variable is 0. So, the degree is 0.

(iii) $x^3 - 9x + 3x^5$

The maximum exponent of the variable is 5. So, the degree is 5.

(iv) $y^3 (1 - y^4) = y^3 - y^7$

The maximum exponent of the variable is 7. So, the degree is 7.



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