



G.D.GOENKA PUBLIC SCHOOL

Class: 9th

Subject: Mathematics

Polynomials

Multiple choice questions

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1 $P(x) = x^2 + 5x - \frac{1}{2}$ is a

- (a) quad. $P(x)$ (b) binomial (c) monomial (d) cubic $P(x)$

2 A polynomial of degree 5 in x has at most

- (a) 5 terms (b) 10 terms (c) 6 terms (d) 4 terms

3 The coefficient of x^2 in $(2x^2 - 5)(4 + 3x^2)$ is

- (a) 2 (b) 3 (c) 8 (d) -7

4 Zeroes of the polynomial $p(x) = (x + 2)(x + 5)$

- (a) 2, 5 (b) -2, -5 (c) $-\frac{1}{2}, -\frac{1}{5}$ (d) $\frac{1}{2}, \frac{1}{5}$

5 The remainder when $x^{51} + 51$ is divided by $x + 1$, is

- (a) 51 (b) 50 (c) -1 (d) 0

6 If $x + a$ is a factor of $x^4 - a^2x^2 + 3x - 6a$, then the value of a is

- (a) 0 (b) 1 (c) -1 (d) 2

7 The value of $a^2 + b^2 + c^2$, if $a + b + c = 13$ and $ab + bc + ca = 27$ is

- (a) 250 (b) 223 (c) 115 (d) 81