



Class: IX

Subject: Maths Topic: Polynomials No. of Questions: 20 Duration: 60 Min

Q1 If p(3) = 0, then a factor of p(x) is

- A. (x-3)
- B. (x-2)
- C. (x+3)
- D. (x+2)

Q2 If $x^3 + 2x^2 - 6x + 9$ is divided by x-2, then...... Is the remainder.

- A. -13
- B. 13
- C. 9
- D. -16

Q3 The degree of the polynomial $x^3 + 3x^3 - 7x^2 + 9x + 11$ is....

- A. 1
- B. 2
- C. 3
- D. 5

Q4 If x-2 is a factor of $3x^4$ - $2x^3$ + $7x^2$ - 21x + k, then the value of,

- A. 2
- B. 9
- C. 18
- D. -18



Q5 The zero of 7x-3 is

- B. $\frac{3}{7}$ C. $\frac{7}{3}$ D. $\frac{-7}{3}$

Q6 If x^2 +6x+7 is divided by x+1, then he remainder is

- A. 1
- B. 2
- C. 5
- D. 7

Q7 Factors of $y^2 + 10y + 21$ are.....

- A. (y+3) and (y-7)
- B. (y-3) and (y+7)
- C. (y-3) and (y-7)
- D. (y+3) and (y+7)

Q8 If a-b=2 and ab=3, then $a^3-b^3...$

- A. 8
- B. 27
- C. 26
- D. 6

Q9 If a = b = c then $a^3 + b^3 + c^3 - 3abc =$

- A. a^3
- B. $2a^3$
- C. $3a^3$
- D. 0





Q10 If one factor of the polynomial $x^3+4x^2-3x-18$ is x+3, then the other factor is....

- A. x^2+x
- B. $x^2 + x + 6$
- C. $x^2 + x 6$
- D. $x^2 x + 6$

Q11 If (x^3+28) is divided by (x+3), then the remainder is

- A. 0
- B. 1
- C. -1
- D. 2

Q12.... Should be added to x^3 -76 so that the resulting polynomial is divisible by x-4

- A. 5
- В. -5
- C. 12
- D. -5x+7y

Q13 If $25x^2$ - $49y^2$ has one factor (5x-7y), then the other factor is....

- A. 7x+5y
- B. -7x-5y
- C. 5x+7y
- D. -5x+7Y

Q14 Which of the following is not a polynomial?

- A. $x^2 + \sqrt{2} \sqrt{x} + 3$
- B. $x^2 \sqrt{2}x + 6$
- C. $x^3 + 3x^2 3$
- D. 6x+4





Q15 The degree of the polynomial $3x^3-x^4+5x+3$ is

- A. 3
- B. -4
- C. 4
- D. 1

Q16 Zero of the polynomial $p(x) = a^2x$, $a \ne 0$ is

- A. X=0
- B. X=1
- C. X=-1
- D. a=0

Q17 Which of the following is a term of a polynomial?

- A. 2x
- B. $\frac{3}{x}$
- C. √x
- D. $x\sqrt{x}$

Q18 If p(x) = 5x2 - 3x + 7, then p(1) equals

- A. -10
- B. 9
- C. -9
- D. 10

Q19 Factorisation of x^3+1 is

- A. $(x+1)(x^2-x+1)$
- B. $(x+1)(x^2+1)$
- C. $(x+1)(x^2+x+1)$
- D. $(x-1)(x^2-x-1)$



Q20 If
$$x + y + 2 = 0$$
, $x^3 + y^3 + 8$ equals

- A. $(x + y + 2)^3$
- B. Zero
- C. 6xy
- D. -6xy





