

Topic: Polynomials
Worksheet No. : 5

1. If $x + y = 3$, $x^2 + y^2 = 5$, then xy is

- (a) 1 (b) 3 (c) 2 (d) 5

2. If $x + 2$ is a factor of $x^3 - 2ax^2 + 16$, then value of a is

- (a) 3 (b) 1 (c) 4 (d) 2

3. If one of the factor of $x^2 + x - 20$ is $x + 5$, find the other.

- (a) $x - 7$ (b) $x + 2$ (c) $x + 4$ (d) $x + 5$

4. Identify the polynomial.

- (a) $x^{-2} + x^{-1} + 5$ (b) $x^2 + 5\sqrt{x+7}$ (c) $\frac{1}{x^3} + 7$ (d) $3x^2 + 7$

5. If $x^3 - 6x^2 + ax + b$ is exactly divisible by $x^2 - 3x + 2$, then

$$12a + 22b = ?$$

- (a) 0 (b) 1 (c) 2 (d) 3

6. The value of the polynomial $7x^4 + 3x^2 - 4$ when $x - 2$ is:

- (a) 100 (b) 110 (c) 120 (d) 130

7. The zero of the polynomial $p(x) = 9x + 9$ is:

- (a) 0 (b) -9 (c) -1 (d) 1



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8. If $y^{97} + 97$ is divided by $y + 1$, the remainder is:

- a) 0 (b) 1 (c) 95 (d) 96

9. The value of $99^2 - 98^2$ is:

- (a) 1 (b) 197 (c) 178 (d) 207

10. One of the factors of $(1 + 7x)^2 + (49x^2 - 1)$ is:

- (a) $x - 7$ (b) $7 - x$ (c) $7x - 1$ (d) $14x$



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