

Topic: Polynomails
Worksheet No. : 2

1. On dividing $x^3 + 3x^2 + 3x + 1$ by $5 + 2x$ we get remainder:

- (a) $\frac{8}{27}$ (b) $\frac{27}{8}$ (c) $-\frac{27}{8}$ (d) $-\frac{8}{27}$

2. On dividing $x^3 + 3x^2 + 3x + 1$ by $x + \pi$ we get remainder:

- (a) $-\pi^3 + 3\pi^2 - 3\pi + 1$
(b) $\pi^3 + 3\pi^2 - 3\pi + 1$
(c) $-\pi^3 - 3\pi^2 - 3\pi - 1$
(d) $-\pi^3 + 3\pi^2 - 3\pi - 1$

3. $(x + 8)(x - 10)$ in the expanded form is:

- (a) $x^2 - 8x - 80$
(b) $x^2 + 2x + 80$
(c) $x^2 - 2x - 80$
(d) $x^2 - 2x + 80$

4. The value of 104×96 is :

- (a) 9984 (b) 9624 (c) 9980 (d) 9986

5. If $x - 2$ is a factor of $x^3 + 2ax^2 + ax - 1$, then the value of a is:

- (a) $\frac{7}{6}$ (b) $-\frac{7}{6}$ (c) $\frac{6}{7}$ (d) $-\frac{6}{7}$

6. If $x + y + z = 0$ then $x^3 + y^3 + z^3$ is equal to

- (a) $3xyz$ (b) $-3xyz$ (c) xy (d) $-2xy$

7. The zero of $p(x) = 2x - 7$ is:

- (a) $\frac{7}{2}$ (b) $\frac{2}{7}$ (c) $-\frac{2}{7}$ (d) $-\frac{7}{2}$



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8. Which are the zeroes of $p(x) = (x - 1)(1 - 2)$:

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

9. The value of 95×96 is:

- (a) 9020 (b) 9120 (c) 9320 (d) 9340

10. $(x - 3)(x + 3)$ in the expanded form is:

- (a) $x^2 - 9x - 9$
(b) $x^2 - 6x + 9$
(c) $x^2 - 9$
(d) $x^2 - 6$



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