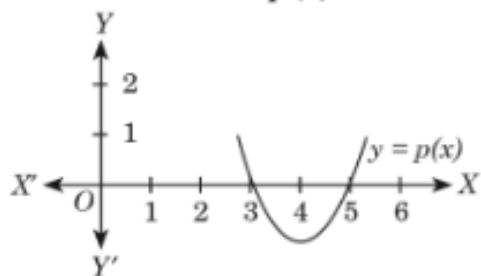
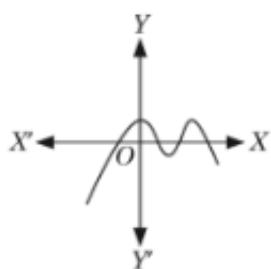


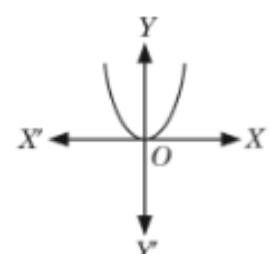
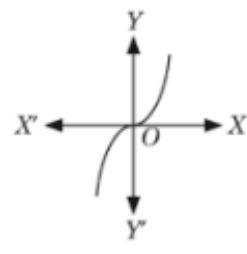
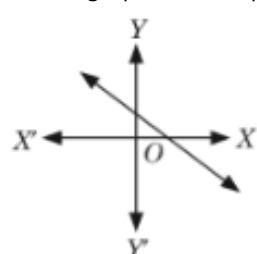
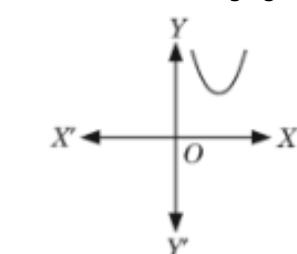
* Choose the right answer from the given options. [1 Marks Each]

[30]

1. In the figure, graph of a polynomial $p(x)$ is given. Find the zeroes of $p(x)$.







4. The zeroes of the quadratic polynomial $x^2 + 25x + 156$ are

5. If one root of the polynomial $f(x) = 3x^2 + 11x + p$ is reciprocal of the other, then the value of p is

6. If the sum of the zeroes of the quadratic polynomial $kx^2 + 4x + 3k$ is equal to their product, then the value of k is

7. The zeroes of the quadratic polynomial $x^2 + kx + k$, where $k > 0$

- (A) are both positive (B) are both negative (C) are always equal (D) are always unequal

8. If the sum of the zeroes of the polynomial $p(x) = (p^2 - 23)x^2 - 2x - 12$ is 1, then p takes the value(s) are

- (A) $\sqrt{23}$ (B) -23 (C) 2 (D) ± 5

9. The zeroes of the polynomial $x^3 - x$ are

- (A) 0, ± 2 (B) 0, ± 1 (C) 0, ± 3 (D) 0, ± 4

10. If one of the zeroes of the quadratic polynomial $bx^2 + cx + d$ is 0, then the other zero is

- (A) $-\frac{b}{d}$ (B) $-\frac{c}{b}$ (C) $\frac{b}{d}$ (D) $\frac{c}{b}$

11. The zeroes of polynomial $x^2 - 5x + 6$ are

- (A) $-1, 0$ (B) $4, 5$ (C) $3, 2$ (D) None of these

12. For what value of p , 1 is a zero of the polynomial $f(x) = 2x^2 + 5x - (3p + 1)$?
 (A) 3 (B) 5 (C) 2 (D) -1
13. The zeroes of the polynomial $f(x) = x^2 - 2\sqrt{2}x - 16$ are
 (A) $\sqrt{2}, -\sqrt{2}$ (B) $4\sqrt{2}, -2\sqrt{2}$ (C) $-4\sqrt{2}, 2\sqrt{2}$ (D) $4\sqrt{2}, 2\sqrt{2}$
14. The zeroes of the polynomial $f(x) = x^2 + x - \frac{3}{4}$ are
 (A) $-\frac{1}{2}, \frac{3}{2}$ (B) $\frac{1}{2}, -\frac{3}{2}$ (C) $1, -\frac{3}{2}$ (D) $1, \frac{\sqrt{3}}{2}$
15. If one zero of the quadratic polynomial $2x^2 - 8x - m$ is $5/2$, then find the other zero.
 (A) $\frac{1}{2}$ (B) $\frac{3}{2}$ (C) $-\frac{3}{2}$ (D) $-\frac{1}{2}$
16. If one of the zeroes of the quadratic polynomial $(k - 1)x^2 + kx + 1$ is -3, then the value of k is
 (A) $\frac{4}{3}$ (B) $-\frac{4}{3}$ (C) $\frac{2}{3}$ (D) $-\frac{2}{3}$
17. Is $x = -2$ a zero of the polynomial $p(x) = x^2 - 2x + 8$?
 (A) Yes (B) No
 (C) May or may not be (D) Can't be determined
18. If 1 is a zero of the polynomial $p(x) = ax^2 - 3(a - 1)x - 1$, then find the value of a .
 (A) 1 (B) 2 (C) -1 (D) -2
19. If one zero of the polynomial $x^2 - 5x + 3 + \sqrt{3}$ is $2 + \sqrt{3}$, then the other zero is
 (A) $1 - \sqrt{3}$ (B) $2 - \sqrt{3}$ (C) $3 - \sqrt{3}$ (D) $2 + \sqrt{3}$
20. If α, β are the zeroes of the polynomial $2y^2 + 5y + 3$, then the value of $\alpha + \beta + \alpha\beta$ is
 (A) -2 (B) 2 (C) 1 (D) -1
21. If the product of zeroes of the quadratic polynomial $f(x) = x^2 - 4x + k$ is 3, then the value of k is
 (A) 3 (B) -3 (C) 2 (D) 1
22. If the product of zeroes of the polynomial $ax^2 - 6x - 6$ is 4, then the value of ' a ' is
 (A) $\frac{2}{3}$ (B) $\frac{3}{2}$ (C) $-\frac{3}{2}$ (D) $-\frac{2}{3}$
23. If α and β are the zeroes of the polynomial $2x^2 + 4x + 5$, then find the value of $\alpha^3 + \beta^3$.
 (A) -7 (B) 7 (C) 6 (D) 5
24. Find the other zero of the polynomial $f(x) = x^2 - 7x - 8$, if one of the zeroes is -1.
 (A) 8 (B) -1 (C) -8 (D) 1
25. The value of k such that the quadratic polynomial $x^2 - (k + 6)x + 2(2k + 1)$ has sum of the zeroes as half of their product, is
 (A) 2 (B) 3 (C) -5 (D) 5
26. If one zero of the polynomial $f(x) = (k^2 + 4)x^2 + 13x + 4k$ is reciprocal of the other, then k is equal to
 (A) 2 (B) -2 (C) 1 (D) -1
27. If α, β are the zeroes of the polynomial $x^2 + 5x + c$, and $\alpha - \beta = 3$, then find c .
 (A) 2 (B) 3 (C) 4 (D) 1
28. If α and β be the zeroes of the polynomial $ax^2 + bx + c$, then the value of $\sqrt{\frac{\alpha}{\beta}} + \sqrt{\frac{\beta}{\alpha}}$ is
 (A) b (B) $\frac{-b}{\sqrt{ac}}$
 (C) $-\frac{\sqrt{b}}{ac}$ (D) $\frac{1}{ac}$
29. Zeroes of a quadratic polynomial are in the ratio 2 : 3 and their sum is 15. The product of zeroes of this polynomial is
 (A) 36 (B) 48 (C) 54 (D) 60
30. The sum and product of zeroes of $p(x) = 63x^2 - 7x - 9$ are S and P respectively. Find the value of $27S + 14P$.
 (A) -1 (B) 1 (C) 2 (D) -2
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