

- 3)1 4) π
17. Find the fixed point of $W = \frac{3z-4}{z-1}$
- 1) $z=1$ 2) $z=0$
- 3) $z=2$ 4) $z=5$
18. If u and v are conjugate harmonic functions, then u is
- 1) harmonic 2) no harmonic
- 3) constant 4) none of these
19. Find $f(z)$ where $f(z) = u + iv$ and $v = 3x^2y - y^3$
- 1) $z^2 + c$ 2) $z^3 + c$
- 3) $z^4 + c$ 4) $z + c$
20. The Fourier sine transform of $f(x) = e^{-ax}$ is
- 1) $\sqrt{\frac{2}{\pi}} \frac{a}{a^2 + s^2}$ 2) $\sqrt{\frac{\pi}{2}} \frac{1}{a^2 + s^2}$
- 3) $\frac{a}{s+1}$ 4) $\sqrt{\frac{2}{\pi}} \frac{a}{s^2 + a^2}$
21. The iteration formula given by Newton-Raphson method to find the root of the equation $x \sin x + \cos x = 0$ is
- 1) $x_{n+1} = x_n - \frac{x_n \sin x_n + \cos x_n}{x_n \cos x_n}$
- 2) $x_{n+1} = x_n - \frac{x_n \sin x_n + \cos x_n}{x_n \sin x_n + \cos x_n}$
- 3) $x_{n+1} = x_n - \frac{x_n \sin x_n + \cos x_n}{x_n \cos x_n + 2 \sin x_n}$
- 4) $x_{n+1} = x_n - x_n \cos x_n + 2 \sin x_n$
22. Let $F(s)$ be the complex Fourier transform of $f(x)$, i.e., $F[f(x)] = F(s)$ then $F[x^n f(x)] =$
- 1) $\frac{d^n}{ds^n} F(s)$ 2) $(-i)^n \frac{d^n}{ds^n} F(s)$
- 3) $\frac{d}{ds} F(s)$ 4) $\int_0^\infty F(s) ds$
23. Apply Lagrange's formula to find $f(x)$
- | | | | | |
|--------|---|---|----|----|
| x | 0 | 1 | 4 | 5 |
| $f(x)$ | 4 | 3 | 24 | 39 |
- 1) $2x^3 + x^2 - 3x$ 2) $2x^2 - 4x + 6$
- 3) $2x^2 - 3x + 4$ 4) $3x^2 - 4x + 5$
24. The value of $\int_0^\infty e^{-2t} \sin t dt$ is

- 1) $\frac{1}{25}$ 2) $\frac{2}{25}$
- 3) $\frac{3}{25}$ 4) $\frac{4}{25}$
25. For the following density function $f(x) = ae^{-ax}$, $-\infty < x < \infty$, find the mean
- 1) 0 2) 1
- 3) 3 4) $\frac{1}{2}$
26. Variance of the random variable X is 9. Its mean is 2. Then $E(X^2) =$
- 1) 13 2) 8
- 3) 10 4) 12
27. Find the moment generating function of a random variable X having the p.d.f.

$$f(x) = \begin{cases} \frac{1}{3}, & -1 < x < 2 \\ 0, & \text{otherwise} \end{cases}$$

- 1) $\frac{e^{2x} - e^{-x}}{t}$ 2) $\frac{e^{-x} + e^{2x}}{t}$
- 3) $\frac{1}{3} \left[\frac{e^{2x} - e^{-x}}{t} \right]$ 4) None of these
28. The probability distribution of a discrete random variable X is given by
- | | | | |
|----------|-----|-----|-----|
| x | -2 | 2 | 5 |
| $P(X=x)$ | 1/4 | 1/4 | 1/2 |
- Then $4E(X^2) - \text{Var}(2X) =$
- 1) 25 2) $\frac{25}{4}$
- 3) $\frac{29}{2}$ 4) 58
29. The mean and variance of a binomial distribution are 4 and $\frac{4}{3}$. Find $P(X \geq 1)$
- 1) 0.998 2) 0.34
- 3) 0.001 4) 0.0119
30. Moment generating function of a binomial distribution about the origin is
- 1) $(p+q)^{n+1}$ 2) $(p+q)^{1-n}$
- 3) $(q+pe^t)^n$ 4) $(pe^t - p)^n$

ANSWERS

1. 1	2. 2	3. 2	4. 4	5. 1	6. 2	7. 2	8. 3	9. 1	10. 2
11. 2	12. 1	13. 1	14. 1	15. 3	16. 2	17. 3	18. 1	19. 2	20. 1
21. 1	22. 2	23. 3	24. 4	25. 1	26. 1	27. 3	28. 1	29. 1	30. 3

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Guillaume Favre



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