ARVIND SUTHAR IIT ROORKEE 5+ YEARS EXPERIENCE

Vedanti

MASTERTEACHE

"The Shortest Distance Between Two Points is a STRAIGHT LINE"









Q1. If the roots of the equation $ax^2 + bx + c = 0$ are in the ratio m : n, then

- **A** mn $b^2 = ac(m + n)^2$
- **B** $b^2 (m + n) = mn$
- **C** $m + n = b^2mn$
- **D** $mnc^2 = ab (m + n)^2$

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Q1. If the roots of the equation $ax^2 + bx + c = 0$ are in the ratio m : n, then

- **B** $b^2 (m + n) = mn$
- **C** $m + n = b^2mn$
- **D** $mnc^2 = ab (m + n)^2$



Let the roots are mr and nr

 $mr + nr = \frac{-b}{a} \Rightarrow r(m+n) = \frac{-b}{a} \dots (1)$ and $mnr^2 = \frac{c}{a} \dots (2)$ Eliminating r, we get $b^2mn = ca(m+n)^2$



Q2. The domain of definition of the function $y = 3e^{\sqrt{x^2-1}} \log(x-1)$ is

 $\mathsf{A} \quad \big(1,\,\infty\big)$

B $[1, \infty)$

C $R - \{1\}$

 $extsf{D}$ $\left(-\infty, \ -1
ight) \ \cup \ \left(1, \ \infty
ight)$



Q2. The domain of definition of the function $y = 3e^{\sqrt{x^2-1}}\log(x-1)$ is



- B $[1, \infty)$
- **C** $R \{1\}$
- $extsf{D}$ $\left(-\infty,\ -1
 ight)$ \cup $\left(1,\ \infty
 ight)$



 $x^2~-~1~\geq~0$ $\Rightarrow x^2 > 1$ $\Rightarrow x \in (-\infty, -1] \cup [1, \infty) (1)$ and x - 1 > 0 $\Rightarrow x > 1$ $\Rightarrow x \in (1, \infty)$ (2) From 1 and 2 $x \in \ ig(1,\,\inftyig)$

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Q3. The value of $\int_{-1}^{1} (x - [x]) dx$ (where [.] denotes greatest integer function) is

A 0

B 1

C 2

D None of these



Q3. The value of $\int_{-1}^{1} (x - [x]) dx$ (where [.] denotes greatest integer function) is







D None of these

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Solution :

$$egin{aligned} &\int\limits_{-1}^1 (x-[x])dx \ &= \int\limits_{-1}^1 xdx - \int\limits_{-1}^1 [x]dx \ &= \left[rac{x^2}{2}
ight]_{-1}^1 - \left[\int\limits_{-1}^0 [x]dx + \int\limits_{0}^1 [x]dx
ight] \ &= rac{1}{2}\left[1-1
ight] - \left[\int\limits_{-1}^0 [-1]dx + \int\limits_{0}^1 0.dx
ight] \ &= rac{1}{2}\left[1-1
ight] - \left[\int\limits_{-1}^0 [-1]dx + \int\limits_{0}^1 0.dx
ight] \ &= rac{1}{2}\left[1-1
ight] - \left[\int\limits_{-1}^0 [-1]dx + \int\limits_{0}^1 0.dx
ight] \ &= rac{1}{2}\left[1-1
ight] - \left[\int\limits_{-1}^0 [-1]dx + \int\limits_{0}^1 0.dx
ight] \ &= rac{1}{2}\left[1-1
ight] - \left[\int\limits_{-1}^0 [-1]dx + \int\limits_{0}^1 0.dx
ight] \ &= 0 - \left[-x
ight]_{-1}^0 - 0 = 0 - \left[-0 - (-1)
ight] = 0 \end{aligned}$$

1



Q4. A flag - staff of 5 meters high stands on a building of 25 meters height. For an observer at a height of 30 meters, the flag-staff and the building subtend equal angles. The distance of the observer from the top of the flag - staff is



D None of these



Q4. A flag - staff of 5 meters high stands on a building of 25 meters height. For an observer at a height of 30 meters, the flag-staff and the building subtend equal angles. The distance of the observer from the top of the flag - staff is



D None of these



We have
$$\tan \alpha = \frac{5}{x}$$
 and $\tan 2\alpha = \frac{30}{x}$
 $\therefore \quad \tan 2\alpha = \frac{30}{5 \cot \alpha} \Rightarrow \quad \tan 2\alpha = 6 \ \tan \alpha$





Q5. If $R = \{(x,y) \mid x, y \in Z, x^2 + y^2 \le 4\}$ is a relation in Z, then domain of R is

- **A** {0, 1, 2}
- **B** {0, -1, -2}
- **C** {-2, -1, 0, 1, 2}
- D None of these



Q5. If $R = \{(x,y) \mid x, y \in Z, x^2 + y^2 \le 4\}$ is a relation in Z, then domain of R is

A {0, 1, 2}

B {0, -1, -2}

C {-2, -1, 0, 1, 2}

D None of these



$$egin{array}{lll} & \ddots R \ = \ \left\{ (x,y) \, ig| \, x,y \ \in \ Z, \, x^2 \ + \ y^2 \ \leq \ 4
ight\} \ & R \ = \ \left\{ egin{array}{lll} (-2,0), \, (-1,0), \, (0,-1), \, (-1,1), \ (1,-1), \, (0,-1), \, (0,1), \, (0,2), \ (0,-2), \, (1,0), \, (0,1), \, (0,2), \ (0,-2), \, (1,0), \, (0,1), \, (1,1), \ (-1,-1), \, (2,0), \, (0,0) \end{array}
ight\} \end{array}$$

Hence, Domain of

$$R \;=\; ig\{-2,\;-1,\,0,\,1,\,2ig\}$$



Q6. If 5⁹⁷ is divided by 52, then the remainder obtained is





Q6. If 5⁹⁷ is divided by 52, then the remainder obtained is





We know that, $5^4 = 625 = 52 \times 12 + 1$ $\Rightarrow 5^4 = 52\lambda + 1$, where λ is a positive int eger.

 $\begin{array}{l} \Rightarrow \ \left(5^{4}\right)^{24} \ = \ \left(52\lambda \ + \ 1\right)^{24} \\ = \ ^{24}C_{0} \ \left(52\lambda\right)^{24} \qquad (by \ \text{binomial theorem}) \\ + \ ^{24}C_{1} (52\lambda)^{23} \ + \ ^{24}C_{2} (52\lambda)^{22} \ + \ \\ + \ ^{24}C_{23} \ \left(52\lambda\right) \ + \ ^{24}C_{24} \end{array}$

 $\Rightarrow 5^{96}$ $= 52 \left[{}^{24}C_0 52^{23}\lambda^{24} + {}^{24}C_1 52^{23}\lambda^{22} + \dots + 1 \right]$ = (a multiple of 52) + 1

On multiplying both sides by 5, we get $5^{97} = 5^{96} \cdot 5 = 5$ (a multiple of 52) + 5 Hence, the required remainder is 5.



Q7. If y = 4x - 5 is tangent to the curve $y^2 = px^3 + q$ at (2,3) then (p,q) is

- **A** (2, 7)
- **B** (-2, 7)
- **C** (-2, -7)
- **D** (2, -7)



Q7. If y = 4x - 5 is tangent to the curve $y^2 = px^3 + q$ at (2,3) then (p,q) is

A (2, 7)

B (-2, 7)

C (-2, -7) **D** (2, -7)



Curve is $y^2 = px^3 + q$ $\therefore 2y \frac{dy}{dx} = 3px^2$ $\Rightarrow \left(\frac{dy}{dx}\right)_{(2,3)} = \frac{3p.4}{2.3}$ $\Rightarrow 4 = 2p$ $\Rightarrow p = 2$

Also, curve is passing through (2,3)

 $\therefore 9 = 8p + q$ $\Rightarrow q = -7$ $\therefore (p,q) ext{ is } (2,-7)$



Q8. The number of discontinuity of the greatest integer function $f(x) = [x], x \in \left(-\frac{7}{2}, 100\right)$ is equal to

A 104

B 102

C 101

D 103



Q8. The number of discontinuity of the greatest integer function $f(x) = [x], x \in \left(-\frac{7}{2}, 100\right)$ is equal to

A 104

B 102

C 101





Given , $f\left(x
ight)=[x],x\in\left(-3.5,100
ight)$

As we know greatest integer is discontinous on integer values.

In given interval , the interger values are (-3, -2, -1, 0,, 99)

: Total numbers of integers are 103.



Q9. The number of ways of selecting 15 teams from 15 men and 15 women, such that each team consists of a man and a woman, is

A 1960

B 15 !

C (15 !)²

D 14 !



Q9. The number of ways of selecting 15 teams from 15 men and 15 women, such that each team consists of a man and a woman, is





D 14 !



Q10. If the general solution of the differential equation $y' = \frac{y}{x} + \varphi\left(\frac{x}{y}\right)$, for some function Φ , is given by ylnlcxl = x where c is an arbitrary constant, then $\varphi(2)$ is equal to $\left(\frac{here}{y}, y' = \frac{dy}{dx}\right)$





Q10. If the general solution of the differential equation $y' = \frac{y}{x} + \varphi\left(\frac{x}{y}\right)$, for some function Φ , is given by ylnlcxl = x where c is an arbitrary constant, then $\varphi(2)$ is equal to $\left(\frac{here}{y}, y' = \frac{dy}{dx}\right)$





$$egin{aligned} given\,:\,y'\,=\,rac{y}{x}\,+\,arphi\left(rac{x}{y}
ight)\ As\ y\,\ln\left(cx
ight)\,=\,x\,\Rightarrow\,y'\ln\left(cx
ight)\,+\,yrac{1}{cx}c\,=\,1\ \Rightarrow\,y'\left(rac{x}{y}
ight)\,+\,rac{y}{x}\,=\,1\ \Rightarrow\,rac{1-\left(rac{y}{x}
ight)}{\left(rac{x}{y}
ight)}\,=\,\left(rac{y}{x}
ight)\,+\,arphi\left(rac{x}{y}
ight)\ x\,=\,2,\,y\,=\,1\,\Rightarrow\,rac{1-\left(rac{1}{2}
ight)}{\left(rac{2}{1}
ight)}\,=\,\left(rac{1}{2}
ight)\,+\,arphi\left(rac{2}{1}
ight)\ \Rightarrow\,arphi\left(2
ight)\,=\,-rac{1}{4} \end{aligned}$$



Q11. If
$$\sin^{-1} \frac{1}{3} + \sin^{-1} \frac{2}{3} = \sin^{-1} x$$
, then the value of x is

A O B $\frac{(\sqrt{5} - 4\sqrt{2})}{9}$ **C** $\frac{(\sqrt{5} + 4\sqrt{2})}{9}$ **D** $\frac{\pi}{2}$


Q11. If
$$\sin^{-1}\frac{1}{3} + \sin^{-1}\frac{2}{3} = \sin^{-1}x$$
, then the value of x is





Given that,
$$\sin^{-1} \frac{1}{3} + \sin^{-1} \frac{2}{3} = \sin^{-1} x$$
,

x

Taking sine on both sides

$$egin{array}{lll} \Rightarrow&\left(rac{1}{3}\sqrt{1-rac{4}{9}}\,+\,rac{2}{3}\sqrt{1-rac{1}{9}}
ight)\,=\ \Rightarrow&\left(rac{1}{3}.\,rac{\sqrt{5}}{3}\,+\,rac{2}{3}.\,rac{\sqrt{8}}{3}
ight)\,=\,x\ \Rightarrow&\left(rac{\sqrt{5}+4\sqrt{2}}{9}
ight)\,=\,x\ \therefore\,x\,=\,\left(rac{\sqrt{5}+4\sqrt{2}}{9}
ight) \end{array}$$



Q12. If x and y are two distinct integers and n is a natural number than $x^n - y^n$ is divisible by

$$A \qquad x^2 - y^2$$

- **B** x + y
- **C** x y
- D None of these



Q12. If x and y are two distinct integers and n is a natural number than $x^n - y^n$ is divisible by

$$A \qquad x^2 - y^2$$

B x + y



D None of these



 $P(n) : x^n - y^n$ where $n \in N$ Then, P(1) : x - y is divisible x - y $P(2) : x^2 - y^2$ is divisible x - y $P(3) : x^3 - y^3$ is divisible x - yHence $x^n - y^n$ is divisible x - y



Q13. Number of roots of the equation $\cos^2 x + \frac{\sqrt{3}+1}{2}\sin x - \frac{\sqrt{3}}{4} - 1 = 0$ which lie in the interval [- π , π] is

A 2

B 4

C 6

D 8



Q13. Number of roots of the equation $\cos^2 x + \frac{\sqrt{3}+1}{2}\sin x - \frac{\sqrt{3}}{4} - 1 = 0$ which lie in the interval [- π , π] is





Given equation is

$$1 - \sin^{2} x + \frac{\sqrt{3} + 1}{2} \sin x - \frac{\sqrt{3}}{4} - 1 = 0$$

$$\Rightarrow \sin^{2} x - \frac{\sqrt{3} + 1}{2} \sin x + \frac{\sqrt{3}}{4} = 0;$$

$$4 \sin^{2} x - 2\sqrt{3} \sin x - 2 \sin x + \sqrt{3} = 0$$

$$2 \sin x (2 \sin x - \sqrt{3}) - (2 \sin x - \sqrt{3}) = 0$$

$$\Rightarrow (2 \sin x - 1) (2 \sin x - \sqrt{3}) = 0$$

On solving we get $\sin x = \frac{1}{2}; \frac{\sqrt{3}}{2}$

$$x = \frac{\pi}{6}, \frac{5\pi}{6}; \frac{\pi}{3}, \frac{2\pi}{3}$$



Q14. Suppose that side lengths of a triangle are three consecutive integers and one of the angles is twice another. The number of such triangles is/are

A 1

B 0C 4

D 2



Q14. Suppose that side lengths of a triangle are three consecutive integers and one of the angles is twice another. The number of such triangles is/are





Let B = 2A and BD be the bisector of angle B, then $CD = \frac{ab}{a+c} \& AD = \frac{bc}{a+c}$ Now, $\triangle ABC$ and $\triangle BDC$ are similar, So $rac{BC}{AC} = rac{CD}{BC} \Rightarrow a^2 = rac{ab}{a+c}b \Rightarrow b^2(i)$ = a (a + c)Since, $b > a \Rightarrow$ Either b = a + 1 orb = a + 2, if b = a + 1, then [From Eq. (i)] $(a+1)^2 = (a+c)a \Rightarrow c = 2 + \frac{1}{c}$ c is integer $\Rightarrow a = 1, b = 2, c = 3$ but then, no triangle will form. If b = a + 2, then obviously c = a + 1. $(a+2)^2 = a (2a+1)$ $\Rightarrow a^2 - 3a - 4 = 0$ or a = 4

 $\therefore a = 4, b = 6, c = 5$ is the only possible solution.





Q15. If $x = 33^n$, n is a positive integral value, then the probability that x will have 3 at its units place is





Q15. If $x = 33^n$, n is a positive integral value, then the probability that x will have 3 at its units place is





Given that, $x = 33^n$ Where, n is a positive integral value. Here, only four digits may be at the unit place ie., 1, 3, 7, 9. $\therefore n(S) = 4$ Let E be the event of getting 4 at its units place. $\therefore n(E) = 1$ (\mathbf{T})

$$\therefore P(E) = \frac{n(E)}{n(S)} = \frac{1}{4}$$



Q16. The area bounded by the curves $y = (x-1)^2$, $y = (x+1)^2$ and $y = \frac{1}{4}$ is





Q16. The area bounded by the curves $y = (x-1)^2$, $y = (x+1)^2$ and $y = \frac{1}{4}$ is





The curves

 $=\frac{1}{3}$ sq unit

$$y = (x - 1)^{2}, y = (x + 1)^{2} \text{ and}$$

$$y = \frac{1}{4} \text{ are shown as}$$
where point of intersection are
$$(x - 1)^{2} = \frac{1}{4}$$

$$\Rightarrow x = \frac{1}{2}$$
and
$$(x + 1)^{2} = \frac{1}{4} \Rightarrow x = -\frac{1}{2}$$

$$\therefore Q(\frac{1}{2}, \frac{1}{4}) \text{ and } R(-\frac{1}{2}, \frac{1}{4})$$

$$\therefore \text{ Required area}$$

$$= 2\int_{0}^{\frac{1}{2}} \left[(x - 1)^{2} - \frac{1}{4} \right] dx = 2 \left[\frac{(x - 1)^{2}}{3} - \frac{1}{4}x \right]_{0}^{\frac{1}{2}}$$

 $= 2 \left[-rac{1}{8.3} - rac{1}{8} - \left(-rac{1}{3} - 0
ight)
ight] = rac{8}{24}$

 $y = (x-1)^{2}$



Q17. If
$$y = \log_{10} x + \log_x 10 + \log_x x + \log_{10} 10$$
,
then $\frac{dy}{dx}$ is equal to

Α	${1\over x\log_e 10} ~-~$	$\frac{\log_e 10}{x (\log_e x)^2}$
B	$rac{1}{x\log_e 10}$	$- rac{1}{x \log_{10} e}$
С	$rac{1}{x\log_e 10}$ –	$- \frac{\log_e 10}{x \left(\log_e x\right)}$

D None of these



Q17. If
$$y = \log_{10} x + \log_x 10 + \log_x x + \log_{10} 10$$
,
then $\frac{dy}{dx}$ is equal to



D None of these





Q18. $z \in C$ satisfies the condition $|z| \ge 3$. Then the least value of $\left|z + \frac{1}{z}\right|$ is





Q18. $z \in C$ satisfies the condition $|z| \ge 3$. Then the least value of $\left|z + \frac{1}{z}\right|$ is





From triangle inequality we know that $|z_1+z_2| \geq ||z_1|-|z_2||$

Hence

3

$$\begin{vmatrix} z + \frac{1}{z} \end{vmatrix} = \begin{vmatrix} z - \left(-\frac{1}{z} \right) \ge |z| - \left| -\frac{1}{z} \right| \end{vmatrix}$$
$$\ge 3 - \frac{1}{3} = \frac{8}{3}$$
Hence $\frac{8}{3}$ is the correct answer



Q19. If a,b,c,d,e,f, are in arithmetic progression. Then e - c is equal to

- A 2 (c a)
- **B** 2 (d c)
- **C** 2 (f d)
- D d c



Q19. If a,b,c,d,e,f, are in arithmetic progression. Then e - c is equal to

D d-c



a,b,c,d,e, f are in A.P.

Let common difference = D

$$\therefore e-c=(a+4D)-(a+2D)=2D$$
 $=2(d-c)$



Q20. $\int \frac{\ln (x+1) - \ln x}{x (x+1)} dx$ is equal to (where C is an arbitrary constant)

$$A \qquad -\frac{1}{2} \left[\ln \left(\frac{x+1}{x} \right) \right]^2 + C$$
$$B \qquad C \qquad -\left[\left\{ \ln \left(x+1 \right) \right\}^2 - \left(\ln x \right)^2 \right.$$
$$C \qquad -\ln \left[\ln \left(\frac{x+1}{x} \right) + C \right]$$
$$D \qquad -\ln \left(\frac{x+1}{x} \right) + C$$



Q20. $\int \frac{\ln (x+1) - \ln x}{x (x+1)} dx$ is equal to (where C is an arbitrary constant)

$$\begin{array}{l} \checkmark \qquad -\frac{1}{2} \left[\ln \left(\frac{x+1}{x} \right) \right]^2 + C \\ \blacksquare \qquad C \qquad - \left[\left\{ \ln \left(x+1 \right) \right\}^2 \ - \ (\ln x)^2 \right] \\ \blacksquare \qquad - \ln \left[\ln \left(\frac{x+1}{x} \right) \ + \ C \right] \\ \blacksquare \qquad - \ln \left(\frac{x+1}{x} \right) \ + \ C \end{array}$$



$$put \ln (x+1) - \ln x = t$$

 $\Rightarrow rac{1}{x+1} - rac{1}{x} = rac{dt}{dx} \Rightarrow rac{x(x+1)}{x(x+1)} = rac{dt}{dx}$
 $\Rightarrow rac{-dx}{x(x+1)} = dt \Rightarrow rac{dx}{x(x+1)} = -dt$

so question becomes

$$-\int t \,\, dt = -rac{t^2}{2} + C$$



Q21. If f(x) is a polynomial satisfying $f(x) f\left(\frac{1}{x}\right) = f(x) + f\left(\frac{1}{x}\right) and f(2) > 1$, then $\lim_{x \to 1} f(x)$ is



As given $f(x) \cdot f\left(\frac{1}{x}\right) = f(x) + f\left(\frac{1}{x}\right) \cdot f(2)$, $\Rightarrow f(x)f\left(\frac{1}{x}\right) - f(x) - f\left(\frac{1}{x}\right) = 0$ $\Rightarrow (f(x) - 1) (f(\frac{1}{x}) - 1) = 1$ $\Rightarrow h(x)h(\frac{1}{x}) = 1$ as it f(x) is a polynomial, hence h(x)will also be a polynomial $\Rightarrow h(x) = \pm x^n$ $\Rightarrow f(x) = \pm x^n + 1$ Hence $f(x) = \pm x^n + 1$ Now $f(2) > 1 \Rightarrow f(x) = x^n + 1$ hence $\lim_{x \to 1} f(x) = \lim_{x \to 1} (x^n + 1) = 2$



Q22. If

$$A = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 1 \\ 0 & -2 & 4 \end{bmatrix}, I = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} \text{ and } A^{-1} = \frac{1}{6} (A^2 + cA + d)$$
then the sum of values of c and d is



We evaluate A^2 and A^3 and write the given equation as

$$AA^{-1}=I=rac{1}{6}\left[A^3+cA^2+dA
ight].$$

Comparing the corresponding elements on both the sides,

we get c = -6, d = 11.





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Q23. The least value of the quadratic polynomial, $f(x) = (2p^2 + 1)x^2 + 2(4p^2 - 1)x + 4(2p^2 + 1)$ for real values of p and x is



$$egin{aligned} y &= 2p^2 \left(x^2 + 4x + 4
ight) + x^2 - 2x + 1 + 3 \ y &= 2p^2 (x + 2)^2 + (x - 1)^2 + 3 \ p &= 0, \ x &= 1 \ y_{\min} &= 3 \end{aligned}$$


Q24. If A, B, C are in arithmetic progression and B = $\frac{\pi}{4}$, then tanA tan B tan C=



Solution :

$$\therefore \text{ Angle } A, B, C \text{ are in arithmetic progession}$$

and $\angle B = \frac{\pi}{4} \text{ then } A = \frac{\pi}{4} - \theta C = \frac{\pi}{4} + \theta$
Hence $\tan\left(\frac{\pi}{4} - \theta\right) \tan\frac{\pi}{4} \tan\left(\frac{\pi}{4} + \theta\right)$
 $= \frac{1 - \tan \theta}{1 + \tan \theta} \cdot 1 \cdot \frac{1 + \tan \theta}{1 - \tan \theta} = 1$

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Q25. The distance of the point (-1, 1) from the line 12(x + 6) = 5(y - 2) is



Solution :

The given line is
$$12(x+6) = 5(y-2)$$

 $\Rightarrow 12x - 5y + 82 = 0$

The perpendicular distance from (x_1, y_1) to the line ax + by + c = 0 is $\frac{(ax_1+by_1+c)}{\sqrt{a^2+b^2}}$ The point $(x_1, y_1)is(-1, 1)$, therefore, perpendicular distance (-1,1) to the line

12x - 5y + 82 = 0 is= $\frac{|12 - 5 + 82|}{\sqrt{12^2 + (-5)^2}} = \frac{65}{\sqrt{144 + 25}} = \frac{65}{\sqrt{169}}$ = $\frac{65}{13} = 5$

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