MATHEMATICS

SECTION - A

Multiple Choice Questions: This section contains 20 multiple choice questions. Each question has 4 choices (1), (2), (3) and (4), out of which **ONLY ONE** is correct.

Choose the correct answer :

1. Let $x * y = x^2 + y^2$ and $(x * 1) * 1 = x * (1 * 1)$. Then a value of $2\sin^{-1}\left(\frac{x^4 + x^2 - 2}{x^4 + x^2 + 2}\right)$ is

(A) $\frac{\pi}{4}$ (B) $\frac{\pi}{3}$

(C) $\frac{\pi}{2}$ (D) $\frac{\pi}{6}$

Answer (B)

Sol. Given $x * y = x^2 + y^2$ and $(x * 1) * 1 = x * (1 * 1)$

So, $(x^2 + 1) * 1 = x * 2$

$\Rightarrow (x^2 + 1)^2 + 1 = x^2 + 8$

$\Rightarrow x^4 + 2x^2 + 2 = x^2 + 8$

$\Rightarrow (x^2)^2 + x^2 - 6 = 0$

$\therefore (x^2 + 3)(x^2 - 2) = 0$

$\therefore \boxed{x^2 = 2}$

Now, $2\sin^{-1}\left(\frac{x^4 + x^2 - 2}{x^4 + x^2 + 2}\right) = 2\sin^{-1}\left(\frac{4}{8}\right)$

$= 2\cdot\frac{\pi}{6} = \frac{\pi}{3}$

2. The sum of all the real roots of the equation $(e^{2x} - 4)(6e^{2x} - 5e^x + 1) = 0$ is

(A) $\log_e 3$ (B) $-\log_e 3$

(C) $\log_e 6$ (D) $-\log_e 6$

Answer (B)

Sol. Given equation : $(e^{2x} - 4)(6e^{2x} - 5e^x + 1) = 0$

$\Rightarrow e^{2x} - 4 = 0$ or $6e^{2x} - 5e^x + 1 = 0$

$\Rightarrow e^{2x} = 4$ or $6(e^x)^2 - 3e^x - 2e^x + 1 = 0$

$\Rightarrow 2x = \ln 4$ or $(3e^x - 1)(2e^x - 1) = 0$

$\Rightarrow \boxed{x = \ln 2}$ or $e^x = \frac{1}{3}$ or $e^x = \frac{1}{2}$

or $x = \ln\left(\frac{1}{3}\right), -\ln 2$

Sum of all real roots $= \ln 2 - \ln 3 - \ln 2$

$= -\ln 3$

3. Let the system of linear equations

$x + y + az = 2$

$3x + y + z = 4$

$x + 2z = 1$

have a unique solution (x^*, y^*, z^*). If (α, x^*), (y^*, α) and $(x^*, -y^*)$ are collinear points, then the sum of absolute values of all possible values of α is

(A) 4 (B) 3

(C) 2 (D) 1

Answer (C)

Sol. Given system of equations

$x + y + az = 2$ ...(i)

$3x + y + z = 4$ ...(ii)

$x + 2z = 1$ ...(iii)

Solving (i), (ii) and (iii), we get

$x = 1, y = 1, z = 0$ (and for unique solution $a \neq -3$)

Now, $(\alpha, 1)$, $(1, \alpha)$ and $(1, -1)$ are collinear

$\therefore \begin{vmatrix} \alpha & 1 & 1 \\ 1 & \alpha & 1 \\ 1 & -1 & 1 \end{vmatrix} = 0$

$\Rightarrow \alpha(\alpha + 1) - 1(0) + 1(-1 - \alpha) = 0$

$\Rightarrow \alpha^2 - 1 = 0$

$\therefore \alpha = \pm 1$

$\therefore$ Sum of absolute values of $\alpha = 1 + 1 = 2$

4. Let $x, y > 0$. If $x^5y^2 = 2^{15}$, then the least value of $3x + 2y$ is

(A) 30 (B) 32

(C) 36 (D) 40

Answer (D)

Sol. $x, y > 0$ and $x^5y^2 = 2^{15}$

Now, $3x + 2y = (x + x + x) + (y + y)$

So, by A.M $\geq$ G.M inequality

$\frac{3x + 2y}{5} \geq \sqrt[5]{x^3 \cdot y^2}$

$\therefore 3x + 2y \geq 5\sqrt[5]{2^{15}}$

≥ 40

$\therefore$ Least value of $3x + 4y = 40$

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Lei Huang

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