

Note: For the benefit of the students, specially the aspiring ones, the question of JEE(advanced), 2022 are also given in this booklet. Keeping the interest of students studying in class XI, the questions based on topics from class XI have been marked with "*", which can be attempted as a test. For this test the time allocated in Physics, Chemistry & Mathematics are 25 minutes, 25 minutes and 25 minutes respectively.

FIITJEE

SOLUTIONS TO JEE (ADVANCED) – 2022 (Paper–1)

MATHEMATICS

SECTION 1 (Maximum Marks: 24)

- This section contains EIGHT (08) questions.
- The answer to each question is a **NUMERICAL VALUE**.
- For each question, enter the correct numerical values of the answer using the mouse and the on-screen virtual numerical keypad in the place designated to enter the answer. If the numerical value has more than two decimal places, truncate/round-off the value to **TWO** decimal places.
- Answer to each question will be evaluated according to the following marking scheme:
 Full Marks : +3 **ONLY** if the correct numerical values is entered,
 Zero Marks : 0 in all other cases.

*Q.1. Considering only the principal values of the inverse trigonometric functions, the value of

$$\frac{3}{2} \cos^{-1} \sqrt{\frac{2}{2+\pi^2}} + \frac{1}{4} \sin^{-1} \frac{2\sqrt{2}\pi}{2+\pi^2} + \tan^{-1} \frac{\sqrt{2}}{\pi}$$

is _____.

Sol. 2.35 or 2.36

$$\text{Let } \tan \theta = \frac{\pi}{\sqrt{2}} \Rightarrow \frac{\pi}{4} \leq \theta \leq \frac{\pi}{2} \Rightarrow \pi = \sqrt{2} \tan \theta$$

$$\frac{3}{2} \cos^{-1} \sqrt{\frac{2}{2+2 \tan^2 \theta}} + \frac{1}{4} \sin^{-1} \left(\frac{2\sqrt{2}\sqrt{2} \tan \theta}{2+2 \tan^2 \theta} \right) + \tan^{-1} \left(\frac{\sqrt{2}}{\sqrt{2} \tan \theta} \right)$$

$$= \frac{3}{2} \cos^{-1} (\cos \theta) + \frac{1}{4} \sin^{-1} (\sin 2\theta) + \tan^{-1} (\cot \theta)$$

$$\frac{3}{2} \theta + \frac{1}{4} (\pi - 2\theta) + \frac{\pi}{2} - \theta = \frac{\pi}{4} + \frac{\pi}{2} = \frac{3\pi}{4}$$

Q.2. Let α be a positive real number. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ and $g: (\alpha, \infty) \rightarrow \mathbb{R}$ be the functions defined by

$$f(x) = \sin\left(\frac{\pi x}{12}\right) \text{ and } g(x) = \frac{2 \log_e (\sqrt{x} - \sqrt{\alpha})}{\log_e (e^{\sqrt{x}} - e^{\sqrt{\alpha}})}.$$

Then the value of $\lim_{x \rightarrow \infty} f(g(x))$ is _____.

Sol. 0.5

$$\lim_{x \rightarrow \infty} f(g(x)) = f\left(\lim_{x \rightarrow \infty} g(x)\right)$$

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A Gutmann



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