

VITEEE 2021 Memory Based Questions and Answers for 31 May Slot 2

Q: If $\frac{\sqrt{3}+i}{2} = \frac{a+i}{a-i}$ and a is a real number, then a is equal to:

Q: The value of c for which the mean value of the theorem holds for the function $f(x) = 2x - x^2$ on the interval $[0,1]$ is:

1. 0
2. $\frac{1}{4}$
3. $\frac{1}{2}$
4. $\frac{1}{3}$

Q: If $a \times b$ and $c \times d$ are perpendicular satisfying $a.c = \lambda$, $b.d = \lambda$ ($\lambda > 0$) and $a.d = 4$, $b.c = 9$, then λ is equal to:

1. 3
2. 6
3. 36
4. 2

Q: The integral $2 \int_0^{\pi/2} \sin 2x \log \tan x \, dx$ is equal to:

1. $\pi/2$
2. π
3. 0
4. 1