# VITEEE 2021 Memory Based Questions and Answers for <span style="color:red">31 May Slot 2</span>

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

Q: The value of c for which the mean value of the theorem hols for the function $f(x) = 2x - x^2$ on the interval [0,1] is:
1. 0
2. ¼
3. ½
4. ⅓

Q: If a x b and c x d are perpendicular satisfying a.c = λ, b.d = λ (λ>0) and a.d = 4, b.c = 9, then λ is equal to:
1. 3
2. 6
3. 36
4. 2

Q: The integral $2\displaystyle\int_{0}^{\pi/2} \sin 2x \, \log \tan x \, dx$ is equal to:
1. π/ 2
2. π
3. 0
4. 1