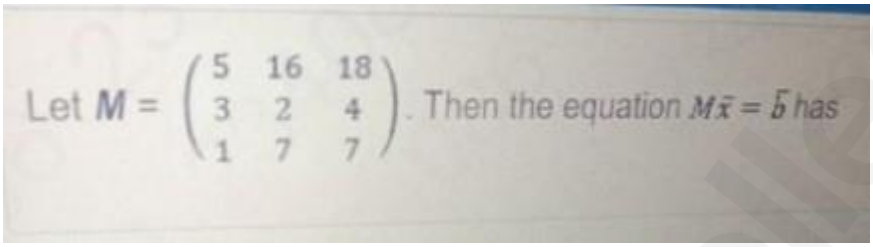
VITEEE 2021 Memory Based Questions and Answers for 29 May Slot 1

Ques. Area bounded by curve $y=x^2$ and $y=5x$
Ans. 125/6 sq units

Ques. 

Ques. If $| z - i | \leq z_1 = 4 + i4$, then the maximum value of $| iz + z_1 |$ is

Ques. a + 2b + 3c = 0
$(a \times b) + (b \times c^{-1}) + (c \times a^{-1}) = ?$

Ques. a((b x c) x (a+b+c) is equal to

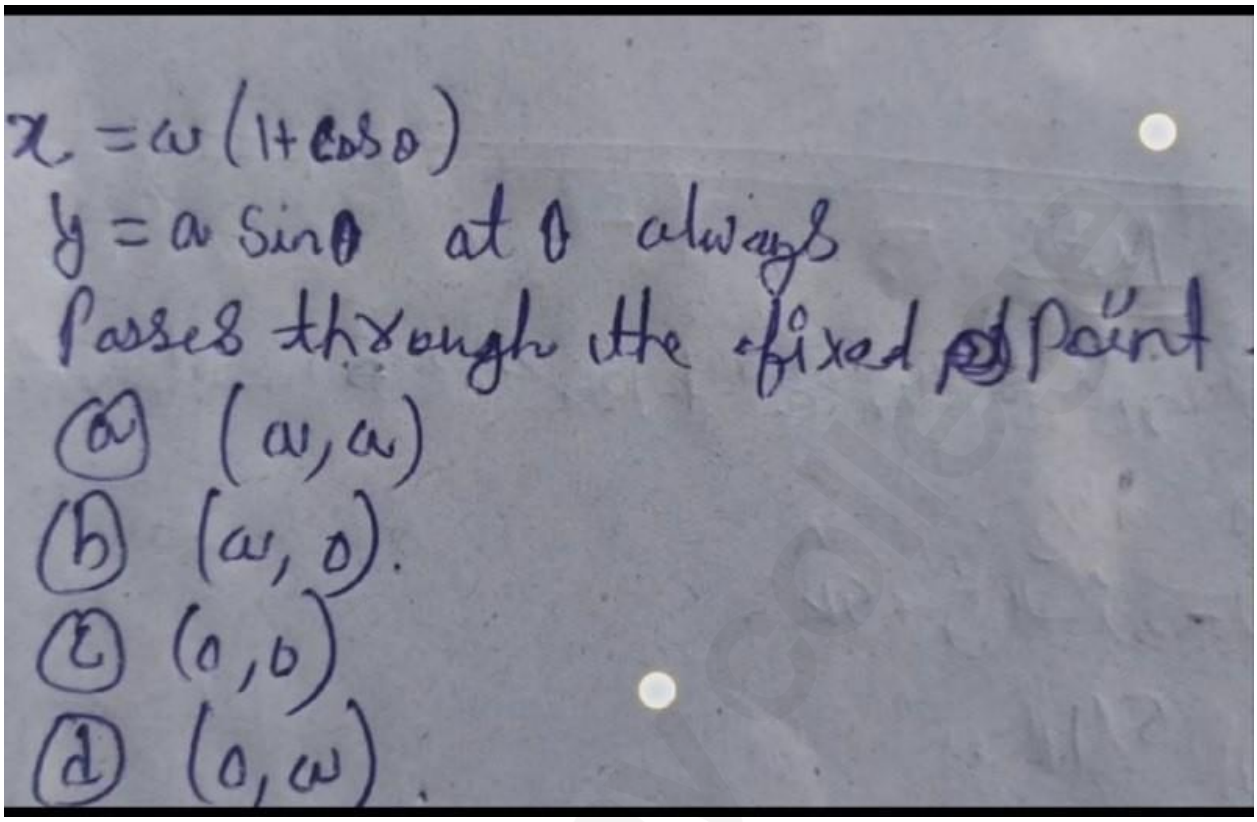
Ques. The angle between the line x-5/10 = y-1/2 = x=2/11 and the plane 2x + 3y - 6z = 7 is equal to

Ques. Direction cosine of a line is (1/z, 1/x, n) then the value of n is

Ques. $\int x^4 e^x dx =$

Ans. $e^x(x^4 - 4x^3 + 12x^2 - 24x + 24) + C$

Ques.



Ques. Three points (a, 2, 3), (0, b, 5), and (6, 7, c) are collinear. The a, b, c should strictly.

Ques. If a + 2b + 3c = 0, then (a x b) = (b x c) + (c x d) is equal to

Ques. y+z = 1; x+y+z = 1; x+2y+2z = a is consistent. What is the value of a?

Ques. The integrating factor of the differential equation dy/dx + P(x)y = Q(x) is x then P(x) =

Ques. Consider a random variable x with $\in(x) = 1$ and $\in(x^2) = 1$, then

Ques. The conic $3x^2 + 6xy + 3y^2 - 4x + 5y = 12$ represents

Ques. The value of $\tan[\sin^{-1}(5/13) + \cot^{-1}(5/4)]$ is equal to

Ques. Let $2 = \sqrt{3}/2 - i/2$ Then the smallest positive integer n such that $(2^{95} + i^{67}) = z^n$ is

Ques. The function $f(x) = \tan^{-1}(\sin x - \cos x)$ is an increasing function in

Ques. The function f(x) = |x| + |x| / x is

Ans. discontinuous at the origin because |x| / x discontinuous there