JEE ADVANCED - 2013



Paper - 2

MATHEMATICS

SECTION - 1: (One or more option correct Type)

This section contains 8 multiple choice questions. Each question has four choices (A), (B), (C) and (D) out of which ONE or MORE are correct.

41. For a
$$\in$$
 R (the set of all real numbers), $a \neq -1$, $\lim_{n \to \infty} \frac{\left(1^n + 2^n + ... + n^n\right)}{\left(n+1\right)^{n-1}\left[\left(na+1\right) + \left(na+2\right) + ... + \left(na+n\right)\right]} = \frac{1}{60}$.

Then a =
$$(A) 5$$

 $(C) \frac{-15}{2}$

(B) 7
(D)
$$\frac{-17}{2}$$

Required limit =
$$\frac{\int\limits_0^1 x^a dx}{\int\limits_0^1 (a+x) dx} = \frac{2}{(2a+1)(a+1)} = \frac{2}{120}$$
$$\Rightarrow a = 7 \text{ or } -\frac{17}{2}.$$

(A)
$$x^2 + y^2 - 6x + 8y + 9 = 0$$

(C) $x^2 + y^2 - 6x - 8y + 9 = 0$

(B)
$$x^2 + y^2 - 6x + 7y + 9 = 0$$

(D) $x^2 + y^2 - 6x - 7y + 9 = 0$

Sol. (A), (C)
Equation of circle can be written as

$$(x-3)^2 + y^2 + \lambda, (y) = 0$$

$$\Rightarrow x^2 + y^2 - 6x + \lambda y + 9 = 0.$$
Now, $(\text{radius})^2 = 7 + 9 = 16$

$$\Rightarrow 9 + \frac{\lambda^2}{4} - 9 = 16$$

$$\Rightarrow \lambda^2 = 64 \Rightarrow \lambda = \pm 8.$$

 \therefore Equation is $x^2 + y^2 - 6x \pm 8y + 9 = 0.$

43. Two lines
$$L_1: x = 5$$
, $\frac{y}{3-\alpha} = \frac{z}{-2}$ and $L_2: x = \alpha$, $\frac{y}{-1} = \frac{z}{2-\alpha}$ are coplanar. Then α can take value(s)

Sol. (A, D)

$$\frac{x-5}{0} = \frac{y-0}{3-\alpha} = \frac{z-0}{-2}$$

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web voiceover let's get some practice solving some exponential equations and we have one right over here we have 26 to the 9x plus five power equals one so pause the video and see if you can tell me what x is going to be well the key here is to realize that 26 to the zeroth power to the zeroth power is equal to one

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