

) JEE MATHEMATICS Madby SUHAG SIR

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SET (G1) A Value of Q ---- is, Set: +or z to be revely imaginary

(1)

$$\frac{Z=-Z}{2+3i\sin \omega} = \frac{2+3i\sin \omega}{1-ai\sin \omega}$$

$$\frac{2+3i\sin\alpha}{1-2i\sin\alpha} = -\left[\frac{2-3i\sin\alpha}{1+2i\sin\alpha}\right].$$

on solving

12 Sin²co - 4 = 0

Sin²co = 1

Sinco = ± 1

So option (1) is correct.

0.2

The system of

$$) = \begin{bmatrix} 1 & \lambda & -1 \\ \lambda & -1 & -1 \end{bmatrix} = 0$$

en solving

$$y_3 - y_5 = 0$$

1=0,1,-1 so aption (1)

PTO



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SETIGI) A wive of length et 1 part goes to square then > R-1) goes to circle

 $A = \frac{\lambda^2}{1/2} + \frac{77(2-d)^2}{1172}$

So Minimum

x = 24 soaption (4)

A Man is walking

DC = 13y-7/13 = 27 Tou DC - 27 - JOHIN P-139 4187 CONCEPT + CON B. C-> 5 Min 13 SO Ception (4)



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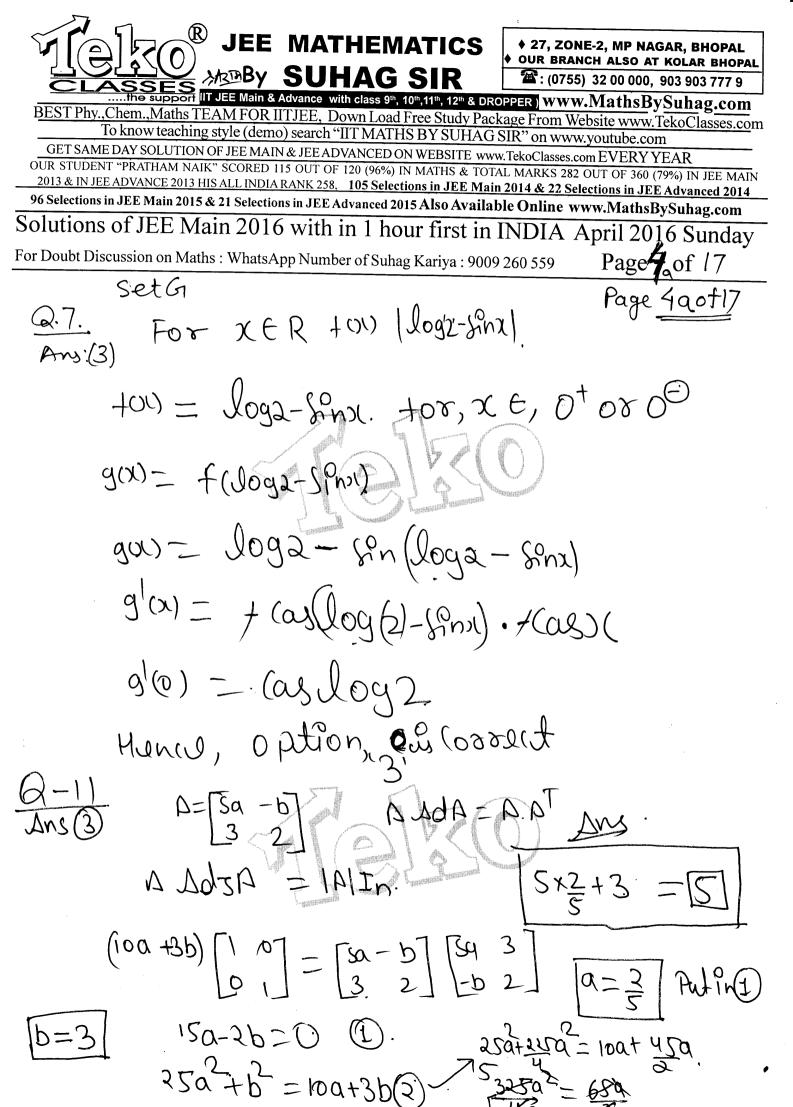
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--- Not true) $P(E_1) = \frac{1}{6} P(E_2) = \frac{1}{6} P(E_3) = \frac{1}{2}$ P(E2 NE3) = P(E2). P(E1 N E3) = 1 = PLEI). PLE3) So 90) is coverect. If the standwid $sal^{n} = 3.5 = 35$ Var(x1 = \frac{2}{2} - (\frac{2}{2})^2 = 49 392-329+84=0





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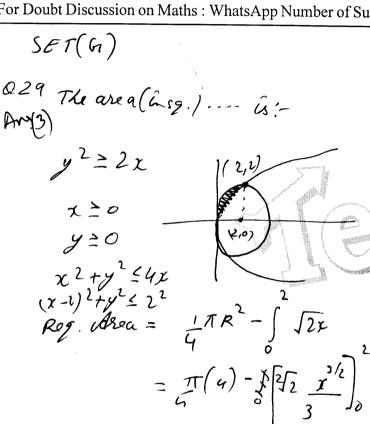
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 $= \mathcal{F} - \left[2 \frac{5}{2} \frac{2 \frac{5}{5}}{2} \right]$

: Ans offor (3)

Page 4bof17 SET(G) @ 3 0 9/ //11 +40,5: An(3) $\ell(x) + 2/(\frac{1}{x}) = 3x$ 8(11+2/12)=3

 $3 \frac{1}{2} = \frac{6}{5} - 32$ $d(x) = \frac{2}{x} - x = \frac{2-x^2}{x}$ S => {/x/= {(-1)

 $\frac{2-x^2}{x} = \frac{2-x^2}{-x}$

... ans option (4)



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(3) O.8 P(19-599) L $\rightarrow x = y = z$ Plane: x-y+z=s. Equation of Line which passes through (19-599) & 11-60 L. $\frac{2l-1}{l} = \frac{y+s}{l} = \frac{z-9-1}{l}$

SO n = d+1 j = d-5intersection with plane gives d+1-(d-5)+d+9=5SO $0 \rightarrow (-9,-15,-1)$ d=-10

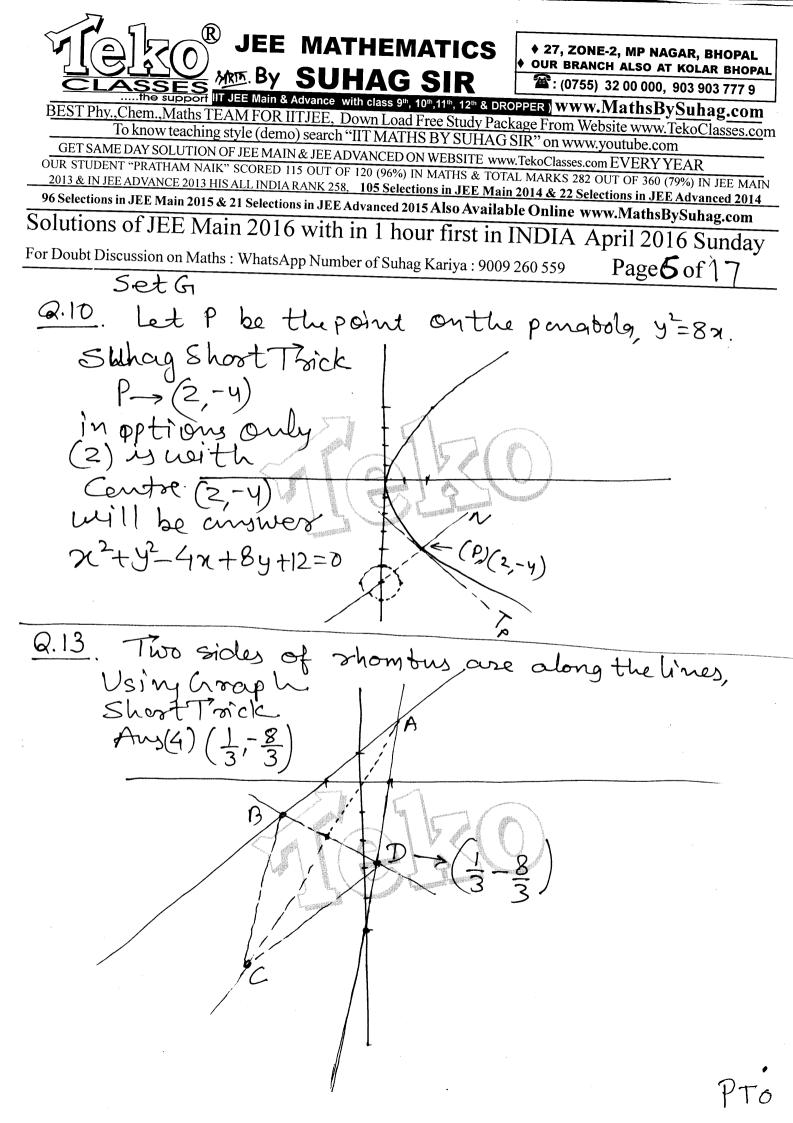
 $PQ = \int [(1+9)^2 + (-15+5)^2 + (1-9)^2$ = 1013 so aption (3)

Q.21.

 $I = \int \frac{2x^{12} + 5x^{9}}{(x^{5} + x^{3} + 1)^{3}} dx \quad Apply Kuturputus$ $I = \int \frac{2x^{12} + 5x^{9}}{(x^{5})^{3}(1 + x^{2} + x^{5})^{3}} dx \quad Apply Kuturputus$ (Manipulation) $(2x^{7} + 5x^{9}) dx \quad (4x^{7} + 5x^{6}) dx$ $(1 + x^{7} + x^{5})^{3} (1 + x^{7} + x^{5})^{3} = \frac{x^{10}}{(x^{5})^{3}}$ $T = -\int dt \quad (-1)^{-1} t \quad t = \frac{x^{10}}{(x^{5})^{3}}$

 $I = -\int \frac{dt}{t^3} = -\left(-\frac{1}{2t^2}\right) = \frac{1}{2(1+\chi^2+\chi^5)^2} = \frac{\chi^{10}+(1+\chi^2+\chi^5)}{2(1+\chi^2+\chi^5)^2} = \frac{\chi^{10}+(1+\chi^2+\chi^5)}{2(1+\chi^2+\chi^5)} = \frac{\chi^{10}+(1+\chi^2+\chi^5)}{2(1+\chi^2+\chi^5)} = \frac{\chi^{10}+(1+\chi^2+\chi^5)}{2(1+$

Ans (3)





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Set G

Sol. Class soom que. num. of teory 3

Q.18. If the sum of the first ten ---

Sol.

$$\frac{4^{2}}{5^{2}}\left(\frac{11(11+1)(2\cdot11+1)}{6}-1\right)=\frac{16}{25}\left(\frac{23x11x12}{8}-1\right)$$

$$\frac{16}{25}$$
 [505] = $\frac{16}{5}$ [101] Ams [3]



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Set(m) The eccentricity-26= 1x (2ae)

Let About = [Sa - b] $adjA = \begin{bmatrix} 2 & -3 \end{bmatrix}^T = \begin{bmatrix} 2 & b \\ -3 & 54 \end{bmatrix}.$

A.adiA = $\begin{bmatrix} 5a - b \end{bmatrix} \begin{bmatrix} 2 & b \\ -3 & 5a \end{bmatrix}$

10a+36

 $\begin{bmatrix} 25a^{2} + b^{2} & 15a - 2b \\ 15a - 2b & 13 \end{bmatrix}$

15a-2b=0 15a=2b.

10a+3b=13 10 a + 3 (15a)=13

65a = 26 b = 159 = 71272 = 35a+b a = 2+3=5



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SHALL. -> ALLMS. A->14 ->12 L->14 = 24. M->12. SA->3 SL->6 SMALL. -> 12+24+12+3+6 SOSmall beat 58th pasition.

0-16 Ans.

 $T_{2} = a_{+}d$, $T_{5} = a_{+}4d$ $T_{9} = a_{+}8d$ $(a_{+}4d)^{2} = (a_{+}u_{1})(a_{+}8a)$ $a_{-}8d$. $a_{-}8d$.

 $T_2 = 9d$, $T_8 = 12d$, $T_9 = 16d$. $SOM = \frac{12d}{9d} = \frac{913}{9}$

P.T.O



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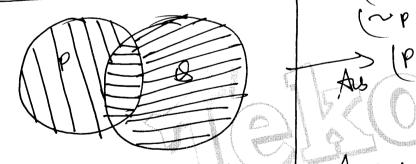
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Q.19 (1)

The boolean -- (PINW) V QV (~PNW)

1-> (V -> U) (Q N ~Q) = Ax (

(PA~Q)=Ar () (~PAQ) = Ar



Aus (y) (pva)

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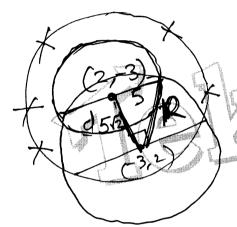
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Set G

Q.22. If one of the diameters of the circle ---

Sol:



$$(-3)^{2} + (2)^{2} - 4(-3) + 6(2) - 12$$

9 + 4 + 12 + 12 - 12
+ ve
So $(-3, 2)$ is
cut side

$$8 = \sqrt{4 + 9 + 12} = 5$$

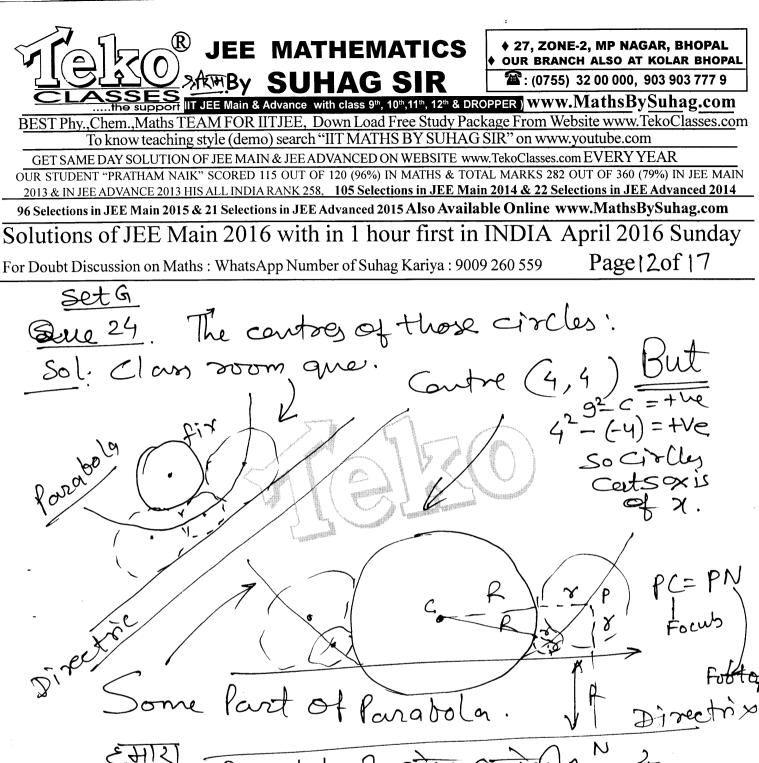
Mew
$$R = \sqrt{5^2 + (5\sqrt{2})^2} = 5\sqrt{2}$$

Q.23.
$$L = \lim_{n \to \infty} \frac{(n+1) \cdot (n+2) \cdot (n+3)}{n} \cdot \frac{(n+2n)}{n}$$

$$\log L = \lim_{n \to \infty} \frac{(n+2n)}{n} + \log \frac{(n+3)}{n} + \cdots + \log \frac{(n+2n)}{n}$$

$$|a| = \lim_{N \to \infty} \frac{2n}{x=1}$$

$$ln L = ln\left(\frac{27}{e^2}\right) \Rightarrow L = \frac{27}{e^2} Ans(3)$$



EATIZI Parabola et revii arinan Arc et Parabola on et Parte by (1)

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Q27 of 0 < 7 < 27, then the number ---

 $\begin{array}{lll}
\cos 4x + \cos x + \cos 3x + \cos 2x &= 0 & \text{by counting} \\
\cos (3x)\cos (3x) + 2\cos (5x) \cos (2) &= 0 & \text{Arry}(4) &= 7 \\
2\cos (5x) \cos (3x) + \cos (2) &= 2.7.\cos (5x) \cos (x) \cos (x) &= 0 \\
5x &= (2n+1) &= 2 &= (2k+1) &= 2 &= (2k+1) &= 0 \\
5x &= (2n+1) &= 2 &= (2k+1) &= 0 &= 0
\end{array}$

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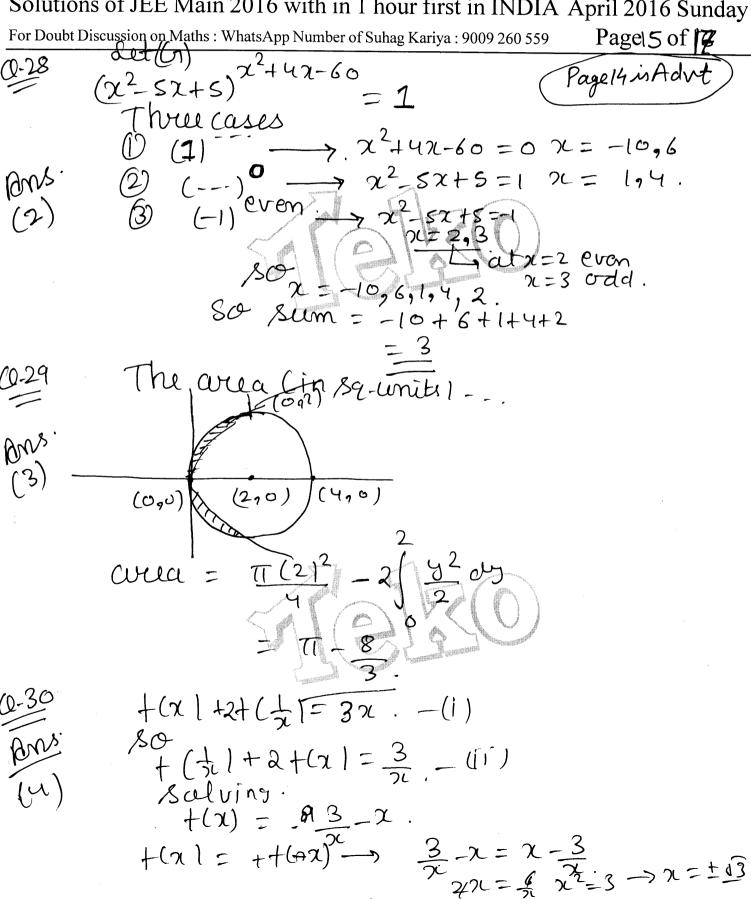
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(3)

Set (G1)

$$t(x) = tan^{-1} \frac{1+sinx}{1-sinx}$$
 $t(x) = tan^{-1} \frac{1+sinx}{1-sinx}$
 $t(x) = tan^{-1} \frac{1+sinx}{1-sinx} = tany = \frac{1+sinx}{1-sinx}$
 $t(x) = tany = tany = \frac{1+sinx}{1-sinx}$
 $t(x) = tany =$

(1) (2.14)

Gy If a curve ---- 3.

$$y(1+xy)dx = xdy \rightarrow dy = y + y^{2}.$$

$$\frac{1}{y^{2}} \frac{dy}{dx} = \frac{1}{y^{2}} = \frac{1}{x}$$

$$\frac{1}{y^{2}} \frac{dy}{dx} = \frac{1}{x}$$