

 $\min_{\text{pringle}} \frac{1}{|z+1|} = \sqrt{\frac{1}{4} + 2} = \frac{5}{2}$ $\min_{\text{pringle}} \frac{1}{|z+1|} = \sqrt{\frac{1}{4} - 2} = \frac{3}{2}$ 0.770

P.T.O.



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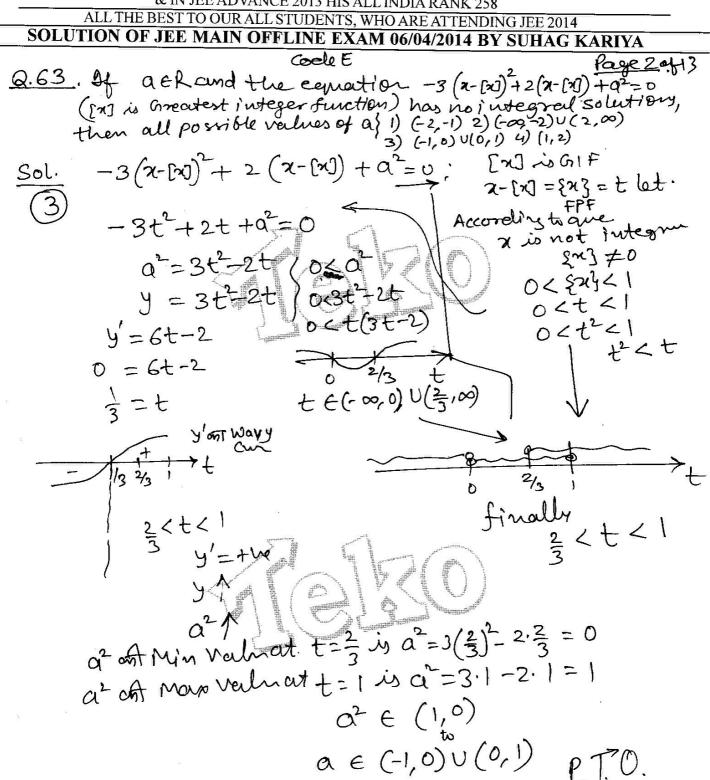
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SOLUTION OF JEE MAIN OFFLINE EXAM 06/04/2014 BY SUHAG KARIYA Code E Q.64. Let x & B be the nots of equation px2+2x+r=0, P =0 If p, q, r are in A.P. and &+ = 4, then the value of |a-B| $P, a, 8 \rightarrow AP$ P+r = 29 P+r = 2998 = -\$ = V(α+β)2 4αβ = V(4αβ)2-(4αβ) $=\sqrt{(16)(\frac{8}{p})^2-4(\frac{8}{p})}$ $=\sqrt{16\times\frac{1}{81}+\frac{4}{9}}=\sqrt{\frac{16+36}{81}}$

Q.65. At a, B + 0 and $(1+f(3)) = K(1-\alpha)^2(1-\beta)^2(\alpha-\beta)^2$ $(1+f(3)) + f(4) + (1+\alpha)(1-\beta)^2(\alpha-\beta)^2$ $(1+f(3)) + f(4) + (1+\alpha)(1-\alpha)^2(1-\beta)^2(\alpha-\beta)^2$ $(1+f(3)) + f(3) + (1+\alpha)(1-\beta)^2(\alpha-\beta)^2$ $(1+f(3)) + f(3) + (1+\alpha)(1-\beta)^2(\alpha-\beta)^2$

 $=\frac{2\sqrt{13}}{9}$

801. Put <=2; β=3 $\begin{vmatrix} 3 & 6 & 34 \\ 6 & 34 & 36 \end{vmatrix} = K(4)(1)(1)$ K=1



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1)
$$\left(14, \frac{272}{3}\right)$$

$$2) (16, \frac{272}{3})$$

$$(16, \frac{251}{3})$$

$$17(16) - \frac{544}{3} = 6$$

b=== p.T.O.



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$$Q.68$$
. $2 + 10^9 + 2(11)(0)^4 + 3(11)^2(10)^7 + --- + 10(11)^9 = k(10)^9$

$$\times \frac{11}{10}$$
 $p.(11)(10)^8 + 2(11)^2(10)^7 + --- + (11)^{10} = \frac{k \cdot 10^8}{24}$



$$\frac{10^9 + 11.(10)^8 + (11)^2(10)^7 + - - - - + 11^9) - 11^{10} = \frac{\kappa.10^{8}11}{+\kappa.10^{9}}$$

find K

- 1) 100
- 110
- 3) 121

$$\frac{11.00}{11-10} - 10^{9} = -\frac{k \cdot 10^{9} \cdot 11 + k \cdot 10^{9}}{11-10}$$

$$\frac{11-10}{100} = K10^{8} \left[10 - \frac{11}{100}\right]$$

= 4K.108

100 = K Q.6). Three positive numbers from increasing GP. If middle termin this GP is doubted the new numbers are in AP. Find common ratio of GP 1) 2- V3 B) 2+ V3 3) V2+V3 AP. Find common ratio of GP 1) 2-V3 B) 2+ V3 3) V2+V3

$$a + ax^2 = 4ax$$

$$x^2 - 4x + 1 = 0$$

$$x = \frac{4 \pm \sqrt{16 - 4}}{2} = \frac{2 \pm \sqrt{3}}{1}$$
orto



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code E Q.70. $\lim_{\chi \to 0} \frac{\sin(\pi \cos^2 \pi)}{\chi^2} = \lim_{\chi \to 0} \frac{\cos(\pi \cos^2 \pi) \cdot (-2\cos \pi \sin \pi)}{\chi} = \pi$ 1)- π 2) π 3) π /2 4) 1

Q.71. If gis the inverse of function f and $f(\pi) = \frac{1}{1+\chi^5}$ then $g(\pi)$ is equal to 1) $(1+g(\pi))^{\frac{1}{2}} = 21+g(\pi)^{\frac{1}{2}} = 31+\chi^5 = 4) = 31$

 $\frac{Sol.}{f(n) = g(n)} \Rightarrow \frac{1}{f(g(n))} \Rightarrow 1 = f(g(n)) \cdot g'(n)$ $\Rightarrow \frac{1}{f'(g(n))} = g'(n) = 1 + (g(n))^{5}$

Q.72. If f and g are differentiable furtions in [0,1]Satisfying f(0)=2=g(i), g(0)=0 and f(i)=6, then for some $C\in [0,1]$ f(c)=g(c) 2) f(c)=2g(c) 3) 2f(c)=g(c) 4) 2f(c)=3g(c)

 $f' = \frac{6-2}{1-0} = 9$ f' = 29' $9' = \frac{2-0}{1-0} = 2$

Q.73. If x=-1 and x=2 are entreme points of f(x)=1 alog |x|+2 then find a x=1 and x=1 and x=2 are entremed for x=1 and x=1 and x=1 are x=1 and x=1 are x=1 and x=1 are x=1 and x=1 are x=1 are x=1 are x=1 are x=1 are x=1 and x=1 are x=1 are x=1 and x=1 are x=1 are x=1 are x=1 and x=1 are x=1 are x=1 and x=1 are x=1 are x=1 are x=1 and x=1 are x=1 are

 $\frac{\alpha}{1} + 2\beta + 1 = 0$ & $\frac{\alpha}{2} + 4\beta + 1 = 0$ Check options d=2 & B=-1

PTO



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Q.74. The integral /(1+x-1/2)ex+2/dx is equal to

Sol. Using Clausic Integral second $\int_{-\infty}^{\infty} e^{g(x)} \left(g(x) \cdot f(x) + f(x) \right) = e^{g(x)} \cdot f(x) + C$ $\int e^{x+\frac{1}{n}} (x) \frac{1}{n} + \frac{1}{n} \int e^{(x+\frac{1}{n})} (x) \frac{1}{n} \frac{1}{n} = (e^{x+\frac{1}{n}}) \cdot x + C$ $\int e^{(x+\frac{1}{n})} (x) \frac{1}{n} \frac{1}{n$

Q.75. Theintegred I = \(\sin^2 \frac{3}{2} - 4 \sin^2 \frac{3}{2} \) $I = \begin{cases} |2\sin\frac{\pi}{2}-1| & \text{cln} = -\left(2\sin\frac{\pi}{2}-1\right) + \int_{N_3}^{\infty} \sin\frac{\pi}{2}-1 = 4\sqrt{3}-4-\frac{\pi}{3} \\ \text{Aus} \end{cases}$

Q.76. The area of the region $y=\sqrt{-x}$ describbibly $A = \xi(x,y): x^2 + y^2 \le 18$ Sol. area GCOBG + BrababaBACOB

G. 100

 $\frac{\pi \cdot 1^2}{2}$ + $\int (1-y^2) dy$ $\frac{\pi}{2} + 2 \int_{1-y^2}^{1-y^2} = \frac{\pi}{2} + 2 \left(y - \frac{3}{3} \right)_0^{1}$



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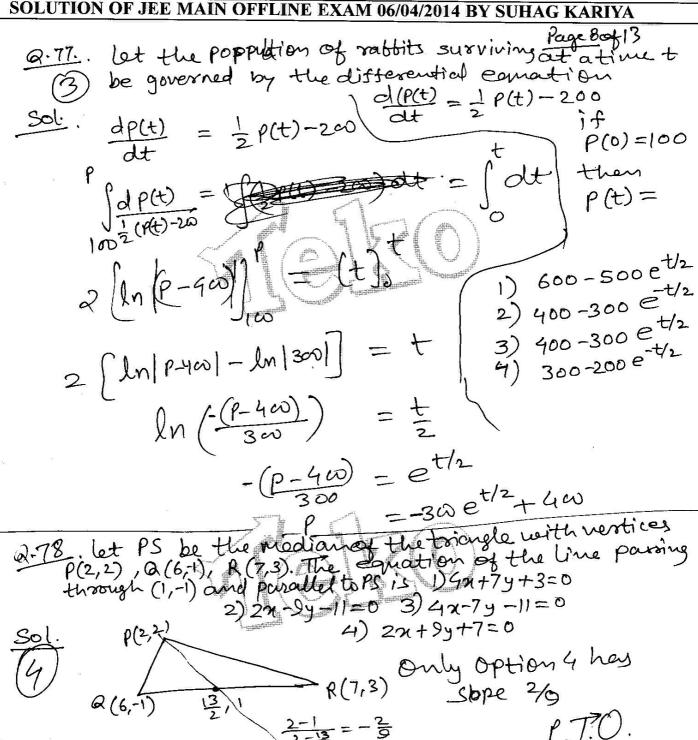
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Page Jof 13 Q.79. Let a,b,cd be non zero numbers. If the point of intersection of the lines 4ax +2ay+c=0 and 5bx+2by+d=0 lies in the fourth quadrant and is equidistant from both the crostner i) 3bc-2ad=0 2) 3bc+2ad=0 3) 2bc-3ad=0

Sol according to que point is (k,-k). (4) 26c+3ad=0

49K-2aK+C=0 \56K-26K+d=0 36K+d=0

3bc = 2ad 3bc-2ad=0

Q.80. The locus of the foot of perpendicular drawn from the centre of the ellipse $\chi^2 + 3y^2 = 6$ on any targent to it is 1) $(\chi^2 + y^2)^2 = 6\chi^2 + 2y^2(2)(\chi^2 + y^2)^2 = 6\chi^2 + 2y^2$ Sol. $\chi^2 + \frac{y^2}{2} = \frac{1}{4}(\chi^2 + y^2)^2 = 6\chi^2 + 2y^2$

(-16,07

at extreme points of Major 2 minor axis option 2 ky will not satisfy

text (13,1)

chartein (1)

Normal (20) 23 - 43.4 = 6.

3/3× = 3y = 0

(O, TR)



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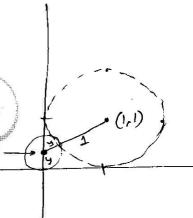
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Q.81. let C be the circle at (1,1) and radius=1. If T is the circle centred at (0,4), Passing through originand touching the circle C externally, then the radius of T is りき 3年3年9年





Q.82. The slope of the line touching both the parabolas $y^2=4\pi$ and $x^2=-32y$ is:

Sol. y= Mx + 1/m Putin x2+32y=0

 $\chi^2 + 32(mx + \frac{1}{m}) = 0$

 $Mx^{2} + 32m^{2}x + 82 = 0$ D = 0 $b^{2} + 49c = 0$

 $(32m^2)^2 - 4. M32 = 0$ $32.372.m^2 = 4.m.32$ $m^3 = \frac{1}{8}$

M== 12 P.T.O.



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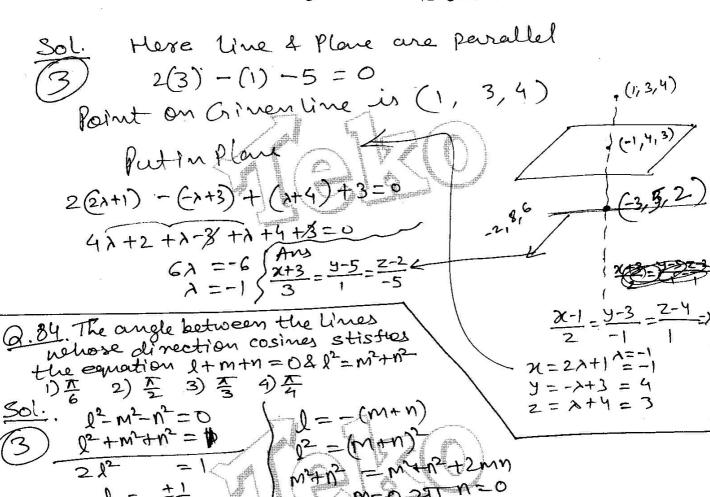
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Q.83. in the plane 2n-y+z+3=0 is the line



$$con0 = d_1d_2 + M_1M_2 + N_1\Omega_2$$

= $\frac{1}{2}$ + 0 + 0
= $\frac{1}{2}$ 0= $60^\circ = \frac{1}{3}$
PT.0.



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H |axb · bxc c xa => 10 Bc 12 then find >> 10 2/1 3)2 4)3

Page 120f13

Sol.

let consider a= î

 $\lambda = 1$

Q. 86. Let A and B be two events such that P(AUB) = 1 P(ADB) = 1 and P(A) = 1 where A Stands for the complement of the event A Than the event A and Bare. of his event but not comply likely 2) Independent but not comply likely 2) Independent but not comply likely 2) Independent but not comply likely 2)

 $P(A \cup B) = 1 - P(A \cup B) = 5$ $P(A) + P(B) - P(A \cap B) = 5$

5 and independent 6 4) comally likely but not independent

 $(1-\frac{1}{4})+P(B)-\frac{1}{4}=\frac{5}{5}$

P(A) = P(B)

 $P(B) = \frac{5}{6} + \frac{1}{4} + \frac{1}{4} - 1 = \frac{5}{6} + \frac{1}{2} - 1 = \frac{5}{6} - \frac{1}{2} = \frac{2}{6} = \frac{1}{3}$

P(A) × P(B) = 3/4 × 1/3 = 1/4 = P(A)B) Independent Even

Q.88. let $f_k(x) = \frac{1}{k} (\sin x + \cos x)$ where $x \in R$ and $K \geqslant 1$ then

-(2) find $f_k(x) - f_k(x)$ equals 0 $\frac{1}{k} = \frac{1}{k} (\sin x + \cos x)$ option (2)

Sol. Put x = 0 & get Aug 1 Option (2)

on Page 13 Que 90. The statement ~ (P+>~2) is 1) s'tautology 2) A fallacy 3) equivalent to P+>2 We know that . 4) equivalent to ~P+>2

weknow that

~ (P 4 9) = P2 ~ 2.

~ (P 4> ~2) = P 4 (2) = P 4 2.



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