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Solution of set A

Q.624 , for a positive integer
$$n$$
, —

Sol.

 $\chi(\alpha+1) = \chi^2 + 1 \chi + 0$
 $(\chi+1)(\chi+2) = \chi^2 + 3\chi + 2$
 $(\chi+2)(\chi+3)$
 $(\chi+2)(\chi+3) = \chi^2 + 5\chi + 6$
 $(\chi+2)(\chi+3) = \chi^2 + 7\chi + 12$
 $(\chi+2)(\chi+3) = \chi^2 + 9\chi + 20$
 $\chi(\chi+2)(\chi+3) = \chi^2 + 1 \chi + 12$
 $\chi(\chi+3)(\chi+3) = \chi^2 + 12$
 $\chi($



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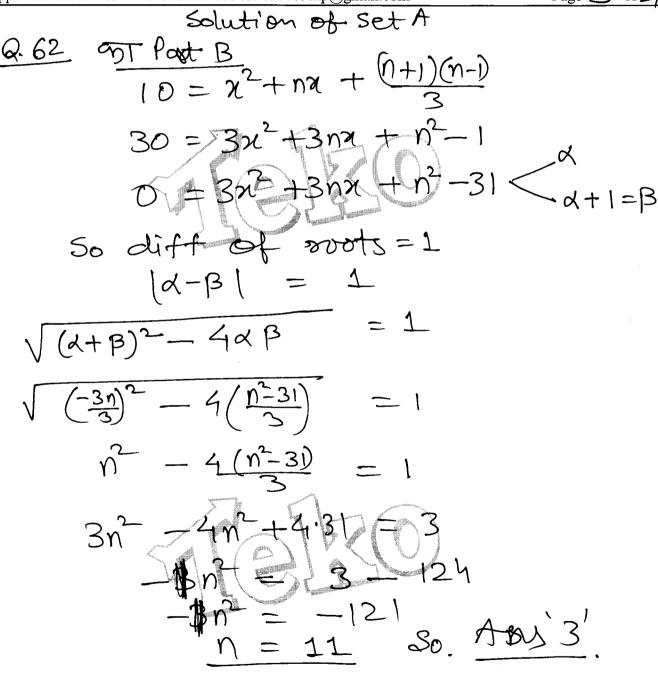
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Page 4 Solution of Set A. be a complex Num. will be w.w=W Expan C1 1+w+w=0 Given $2\omega + 1 = i\sqrt{3} = Z$ $2\omega = -1 + i\sqrt{3}$ $\chi = -1 \pm i\sqrt{3}$



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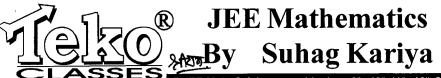
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Solution of Set A पिछिष्टाडेको आगे पेटाको $B = 3A^2 + 12A$ 51

PTO.



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Solution of Set A.

Q.65. If S is the set of distinct value of b'

Sol.

D = 0

1 a 1 = 0

 $I(a-b)-I(1-a)+I(b-a^2)=0$

a-x-1+a+x-a=0

is not depend on b

 $0 = a^2 + 2a + 1$

 $0 = (a-1)^2$ Salpeno on a'

a=1

Now eg

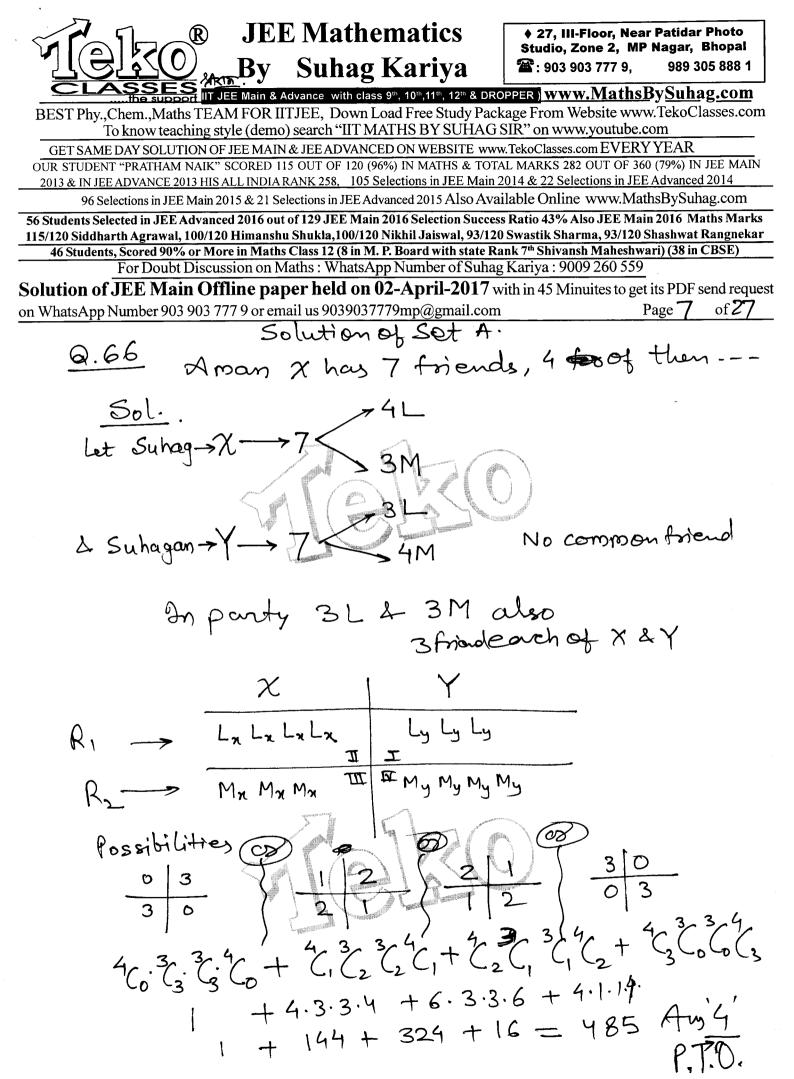
x+4+2=1=0

2+by+Z=0

Pleme I& 2 are same other plane will be parallel (No Sol.) only if b=1 So Solution Set of S is singleton.

Ans 3

P.T.O.





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Page \$

Solution of Set A.

The value of

$$\frac{\text{Sol.}}{2}$$
 $\frac{2}{1}$ $+\frac{2}{1}$ $\frac{2}{1}$ $\frac{2}$ $\frac{2}{1}$ $\frac{2}{1}$ $\frac{2}{1}$ $\frac{2}{1}$ $\frac{2}{1}$ $\frac{2}{1}$

$$\frac{21}{10} + \frac{21}{10} + \frac{21$$

we can say

$$2(1+1) = 2^{21}$$
 $1+1 = 2^{20}$

$$=2^{20}-1$$

$$#= 'C, + C_2 + - - + C_{10} = 2 + 1$$
So Any $= #= (2^{20} - 1) - (2^{10} - 1) = 2^{20} - 2^{10}$
Any '3'

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Solution of Set A. Q.68. for any thre positive real num. $\frac{301.}{9(25a^{2}+b^{2})} + 25(c^{2}-3ac) = 15b(3a+c)$ $235a^{2} + 25c^{2} + ab^{2} = 95ac - 45ab - 15bc = 0.$ $(15a)^{2} + (3b)^{2} + (5c)^{2} - 190ac - 90ab - 90bc = 0$ x + #2+ U - x# - #U-xw=0 (x-#) + (#- W) + (x-V) = 0 So & = # = Y 15a = 3b = 5C +15 $a = \frac{b}{5} = \frac{c}{3} = 9$

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on WhatsApp Number 903 903 777 9 or email us 9039037779mp@gmail.com Page 10 of 27 Solution of Set A. let 9, b, c e R; of f(n) = an2+bn+ce_a+b+c=03 Given f(x+y) = f(x)+f(y)+xy \ x,y +R forty = 4(0) + 24 f(n) - lm - f(n) + xh 2. We can use short Trick of partial diff. in given condition $f'(x) = \lim_{h \to 0} \frac{f(o+h) - f(o)}{h} + x.$ f'(0) f'(x) =integrate $\frac{10}{5}f(n) = \sum_{n=1}^{10} \left(\frac{1}{2}n^2 + \frac{5}{2}n\right) = \frac{1}{2} \left(\frac{10.11.21}{6}\right) + \frac{5}{2} \left(\frac{10.11}{2}\right)$ $= \frac{1}{2} [0.1] [\frac{7}{2} + \frac{5}{2}] = 10.11.3 = 330$



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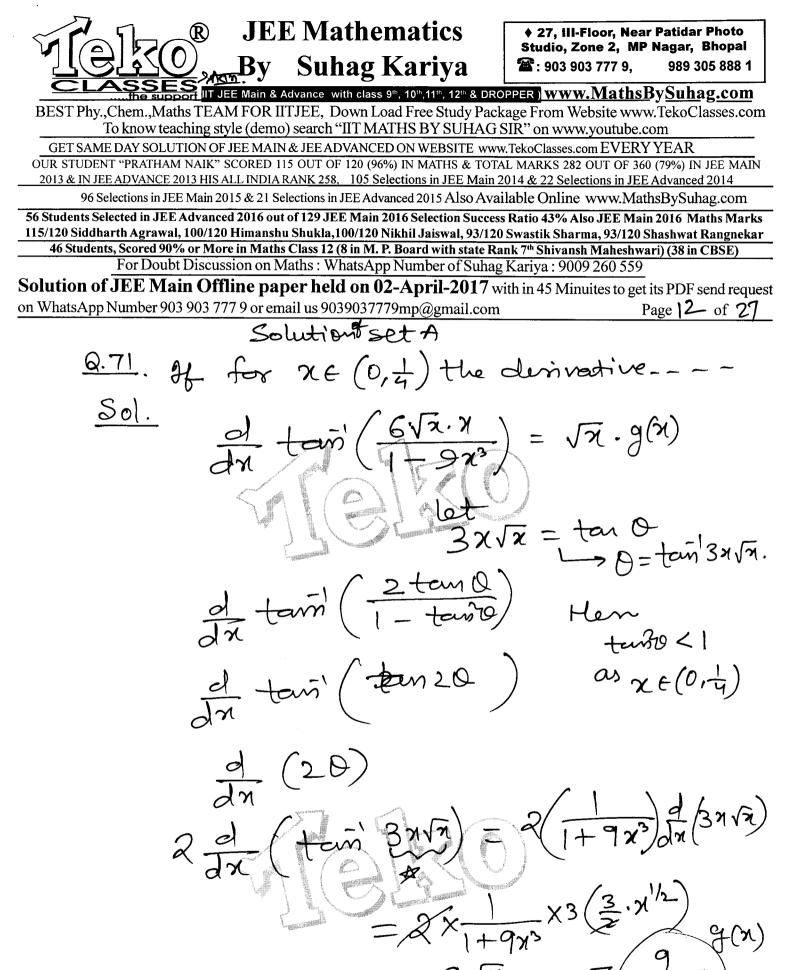
SET (A)

(0.70=) Lt (at n-603 n. n-1 n/2 (π-2x)³

u (05 (7/2+h) (1- Sin (7/2+h))

 $= \frac{1}{1 + 100} \frac{1 + 100}{1 + 100} \frac{1 + 10$

1/16 · Ans. (1).





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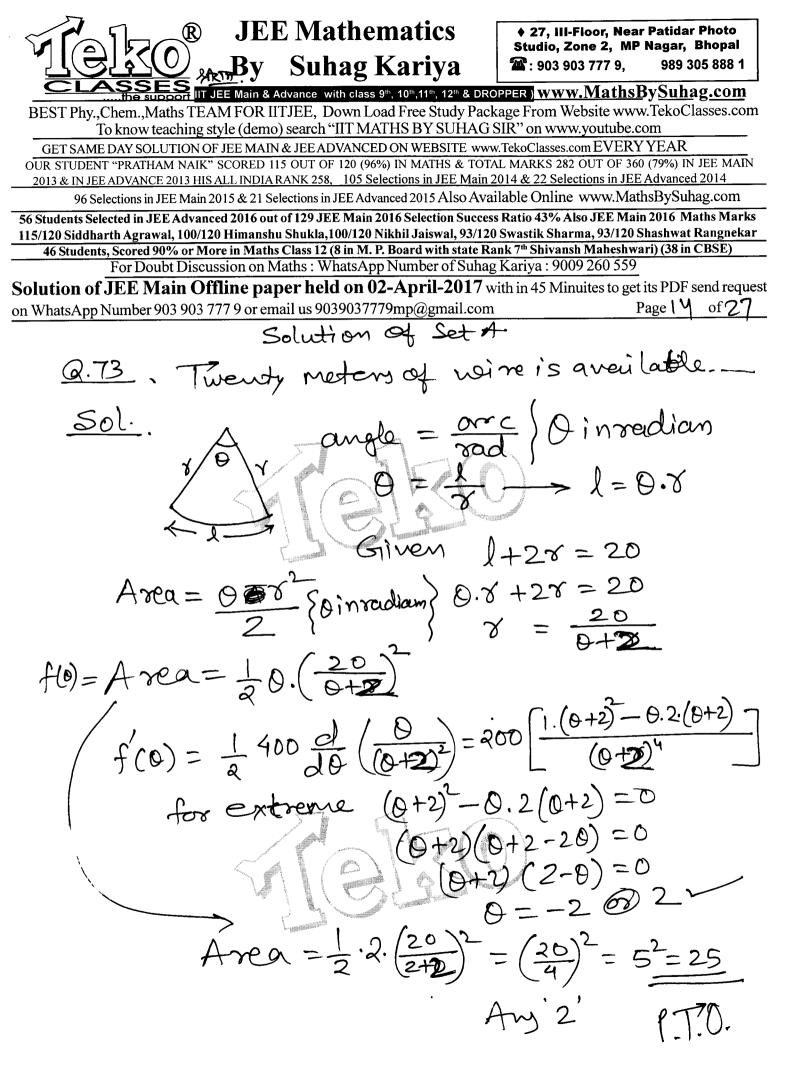
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on WhatsApp Number 903 903 777 9 or email us 9039037779mp@gmail.com Page 13 of 27 Solution of Set A With The normal to the curve. y-1=-1 x+y=1 50 Ans $1(\frac{1}{2},\frac{1}{2})$





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62.74

Solution of Set A. In = Itan'n da a tannt bx + C (tern'n) (1 + tern'n) dn (tany) (sec2x) dx

dt a tan x + bx +C



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Solution of Set A.

$$I = \int \frac{1}{1+(\alpha s)} \frac{ds}{n}$$

$$I = \int \frac{1}{1+(\alpha s)} \frac{ds}{n}$$

$$I = \int \frac{1}{1+(\alpha s)} \frac{1}{n} \frac{ds}{n}$$

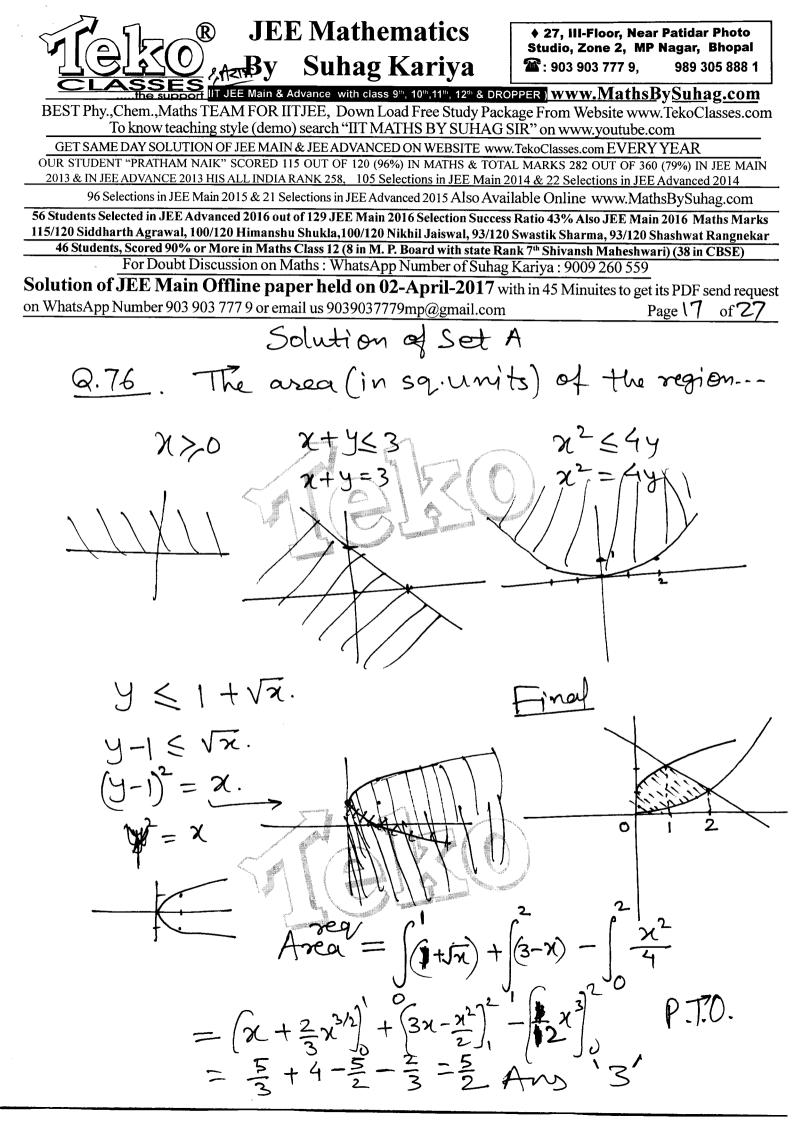
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$$I = \int \frac{1}{1+(\alpha s)} \frac{1}{n} \frac{ds}{n} \frac{ds}{n} \frac{ds}{n} \frac{ds}{n}$$

$$I = \int \frac{1}{1+(\alpha s)} \frac{1}{n} \frac{ds}{n} \frac{ds}{n} \frac{ds}{n} \frac{ds}{n} \frac{ds}{n}$$

$$I = \int \frac{1}{1+(\alpha s)} \frac{ds}{n} \frac{ds}{n} \frac{ds}{n} \frac{ds}{n} \frac{ds}{n} \frac{ds}{n}$$

$$I = \int \frac{1}{1+(\alpha s)} \frac{ds}{n} \frac{$$





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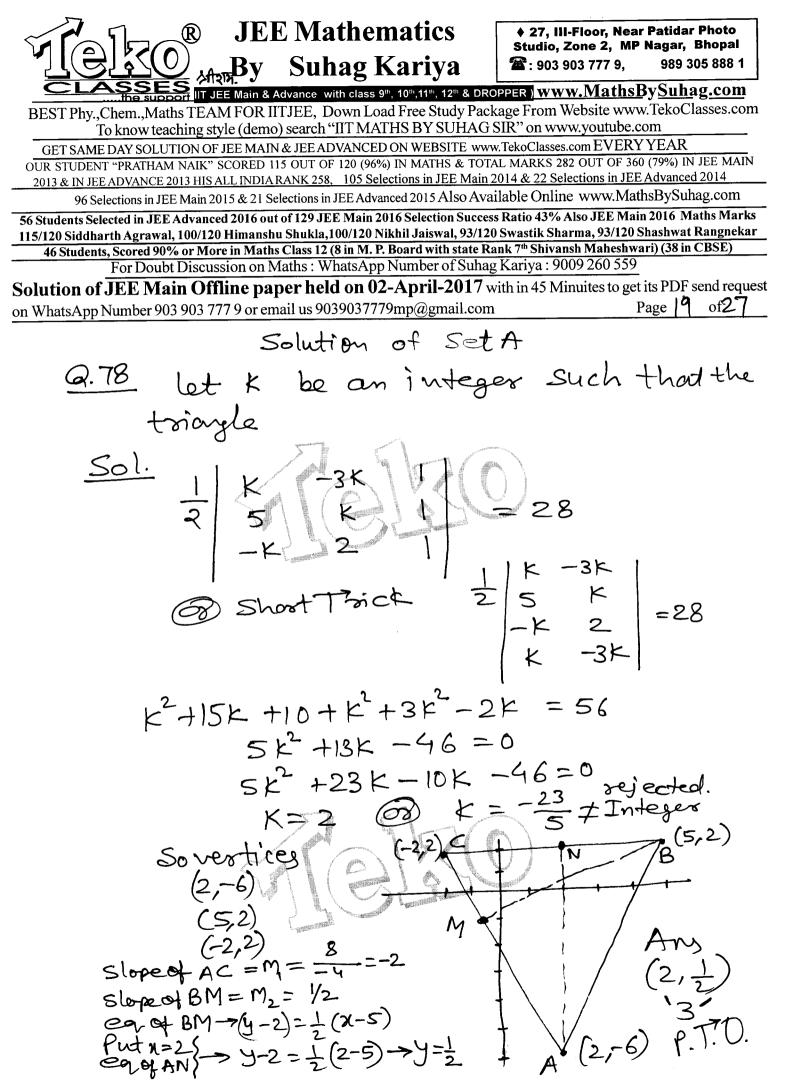
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Solution of Set A. (2+sina) dy ln (2+8inn)+lnc



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P.T.O.



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Page 2\ Salution of set (A The eccentricity_ directrin = x = a & 2 b2= a2(1-e2) so can of ellips alf. 2 + 27. 1 = 0.

 $2 = 17 = \frac{3}{2}$ $1 + 3^{1} = 0 = 7$ 3 + 30

checking aption only option (1) has slage 2.

Ahyporbala

wekmour that $b^2 = a^2(e^2 - 1) = 7b^2 = a^2e^2 - a^2$ $b^2 = 4 - a^2 = 7b^2 + a^2 = 4.7$ $eq^n of hyp. \frac{b^2}{a^2} = \frac{4 - a^2}{4 - a^2} = 1$ passing $\sqrt{2}$, $\sqrt{3}$ p.7.0. $\frac{2}{\alpha^2} - \frac{3}{4 - \alpha^2} = 1 = 7.9 - 90^2 + 8 = 0.$ Taking = a = 1.



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Continuing 81: $\frac{\chi^2}{1} - \frac{y^2}{3} = 1$.

differentiation $2\chi - \frac{2yy}{3} = 0$

differentialis 22 - 293 = 0. $P(\sqrt{2}, \sqrt{3})^3$ So eq of tampont $2\sqrt{2} - 2.133 = 0 = 73 = 16$. $(9 - \sqrt{3}) = \sqrt{6}(x - \sqrt{2})$

(y-B) = 16(1-u) $2 \cdot 18 = 16(1-u)$ $2 \cdot 18 = 16(12)$ 112 = 112 so caption(1) is convect.





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Scalution af set (A) Equation of plane passing through (1, 1,21) & L, & La are normal to plane.

$$\begin{vmatrix} x - x_1 & y - J_1 & 2 - 21 \\ a_1 & a_2 & b_2 & c_2 \\ 2 - 1 & J - 3 & 247 \\ 2 & -1 & -1 \end{vmatrix} = 0$$

$$d = \frac{5(1) + 7(3) + 3(-7) + 5}{5(1) + 7(3) + 3(-7) + 5}$$

$$= \frac{10}{23} \cdot \text{option(1)}$$

0.83 If the padrimage of paint - - - - P(1,-2,3) 2x+3y-4z+22=0.

29° of line passing+horough P2 (11+0-(L)). is $\frac{\chi-1}{2} = \frac{y+2}{3} = \frac{z-3}{3} = \frac{1}{2}$

X=K+1 y=4K-2 Z=5K+3.

Flaw the paint on plane at which it was 2 (K+1) + 3 (4K-2) - 4(5K+3) +22=0

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Let this paint be (R) pa= 2 pR. $f0 = 2. [8-1]^2 + (2-1-2)^2 + (8-3)^2 = 2.542(1)$



Ø.

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let a = ai+j-2K. axB= i(2) - j(2) + k(1)now. Jax 5 12x61x [2] - Sind 3 x121-1 - 121 = 1x2 = 2. naur $|\vec{c}_{-}\vec{a}| = 3$.

8 path sides.

8 $|\vec{a}^2 + |\vec{a}|^2 - 2\vec{a} \cdot \vec{c} = 9$. and $|\vec{a}| = 3$. 8-4+9- 20-c=9 a-c= 4=2 aption(1)

Abox contains 15 Green

Prabablity of success =

variane = 10 nPa = 10x3x2 = 12aption(4)



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0.86 3 = P(AUB) + P(BUC) + P(AUC) - P(ANB) - P(BNC) - P(CNA) now $\frac{3}{8} = 2P(A) + 2P(B) + 2P(C) - 2(P(A \cap B) - P(B \cap C))$ because $P(A \cup B) = P(A) + P(B) - P(A \cap B)$ $\frac{3}{8} = P(A) + P(B) - P(C) - P(A \cap B) - P(C \cap A)$ now P(AUBUC) = P(A) +P(B)+P(C) -P(ANB)
-P(ANC) - P(CNA)+P(ANB) so p(AUBUC) = 3 +1 = 7 (option(1).) = UC2 = SS. If two different - now, (0,4) (0,8) (2,6) (2,10) (4,8) (6,10) are the pairs which difference & sum bath over rultiple of, so Prubablity = 6.

PT.O.



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Solution as Let A 45 (Tan? 2- Cesx) = 2000x+9 5(Tan 27 - ces 2) = 20022+2+7. = 2 (20s2x)+7 5 (Lec2x-1-ces2x)

5 (Lec'n - ces'n) Let ces'n = t

 $5(1-t-t^2) = 4t^2+7t$ 5-st-st2= 4t2+7t.

a at2-12t-5=0

not possible. nour cos2x=1

1+ Ces2x=1 -1 Ces2x=

Cesux = 2 ces222-1-

a verticul

 $+ tancetan \beta = \frac{1}{4}$ $\frac{1}{2} - 2$ $\frac{1}{1 + \frac{1}{2}}$ $\frac{1}{1 + \frac{1}{2}}$ Let tamp =>c $=\frac{1}{9} \longrightarrow \frac{9\times = 1}{2} \longrightarrow \times = \frac{2}{9} \times \frac{9 \times ion(2)}{2}$



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Q.90 P 9 ~ P ~ Q P ~ Q (~P ~ Q) (~P ~)2 (~P ~)2 (~P ~)2)

T T F F T T T T T

F F T T T T

Hence it is a tautology

above is set(A) 0.90.

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