



JEE Mathematics By Suhag Kariya

♦ 27, III-Floor, Near Patidar Photo Studio, Zone 2, MP Nagar, Bhopal

2: 903 903 777 9,

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46 Students, Scored 90% or More in Maths Class 12 (8 in M. P. Board with state Rank 7th Shivansh Maheshwari) (38 in CBSE)

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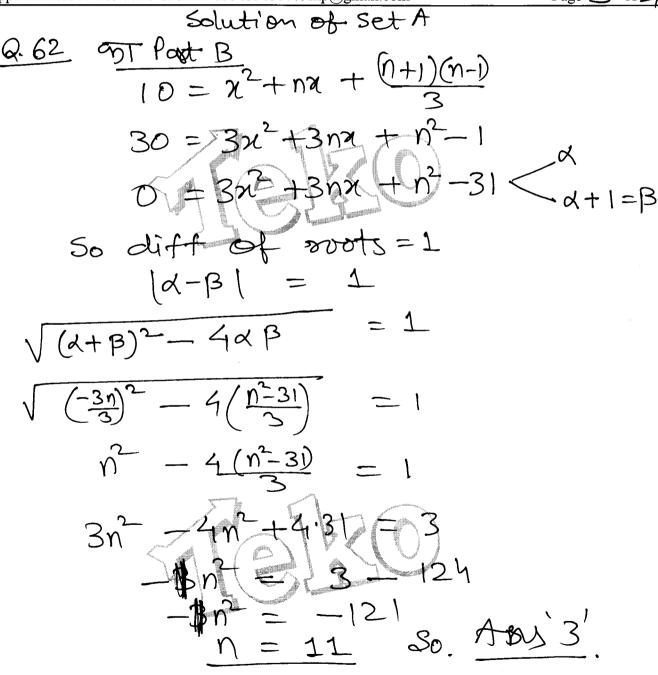
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Page 4 Solution of Set A. be a complex Num. will be w.w=W Expan C1 1+w+w=0 Given $2\omega + 1 = i\sqrt{3} = Z$ $2\omega = -1 + i\sqrt{3}$ $\chi = -1 \pm i\sqrt{3}$



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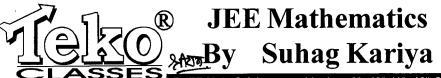
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Solution of Set A पिछिष्टाडेट्जे आगे पे पटाकी $B = 3A^2 + 12A$ 51

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

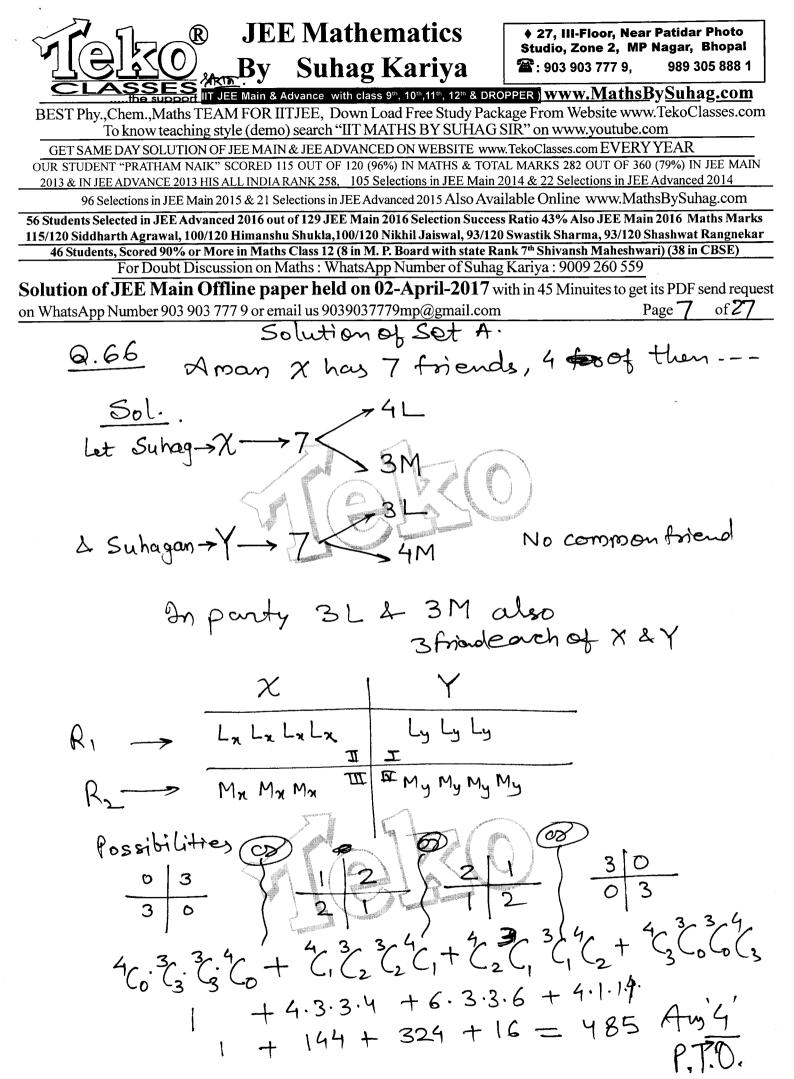
x+4+2=1=0

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 $a = \frac{b}{5} = \frac{c}{3} = 9$

P.T.O.



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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 for+9)-for= f(y)+24 f(x) _ lm _ f(h) + 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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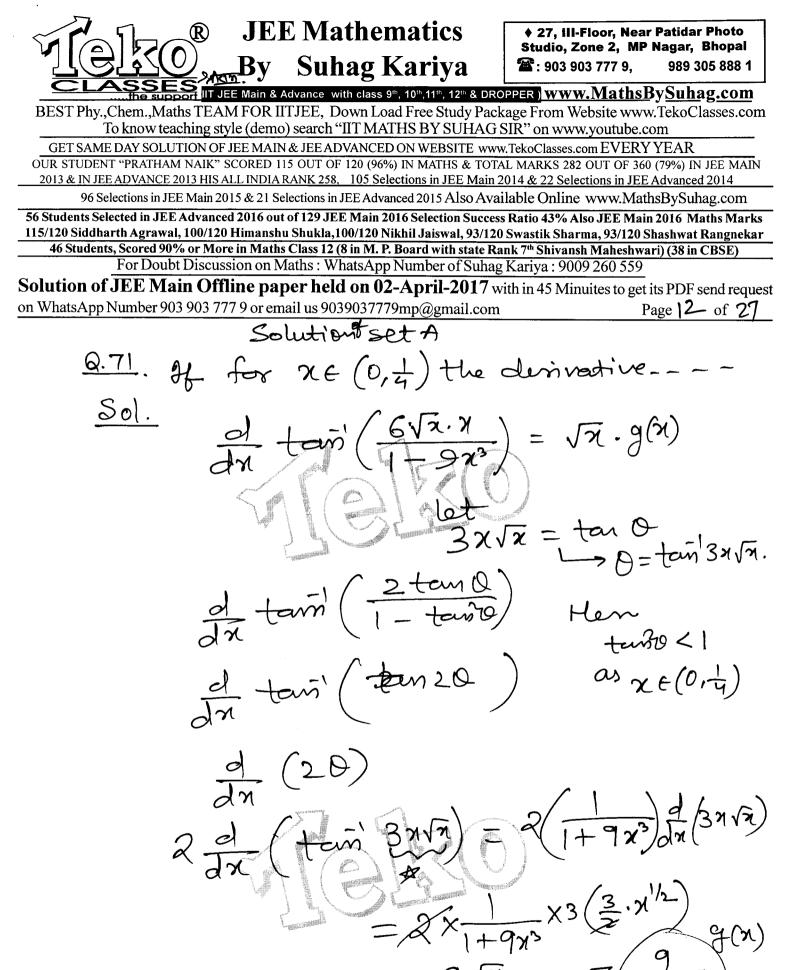
SET (A)

(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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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 $1(\frac{1}{2},\frac{1}{2})$