Class-XII

Mathematics (041)



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din , -16 A cosut - 16 B sin ut Sec2n/ONE 2 -16 (x) $9.7 \quad 6.4 \quad (-2, -1)$ 1-8mn 1+8mx $f'(\chi)^{2} = 6 \chi^{2} + 18 \chi + 12 \approx 6 (\chi^{2} + 3\chi + 2)^{2} \approx 6 (\chi^{2} +$ 6 (x +2) (x+1) 20 [866° x + / 366 x 600 = tour + 802+0 **CLICK HERE** mww.studentbro.in Get More Learning Materials Here:

02 - 4 cos 4+ + B sin 4+ 02 - 4 A sin 4+ 4 B cos 4+ 2 = A Wes 4t +Bering+

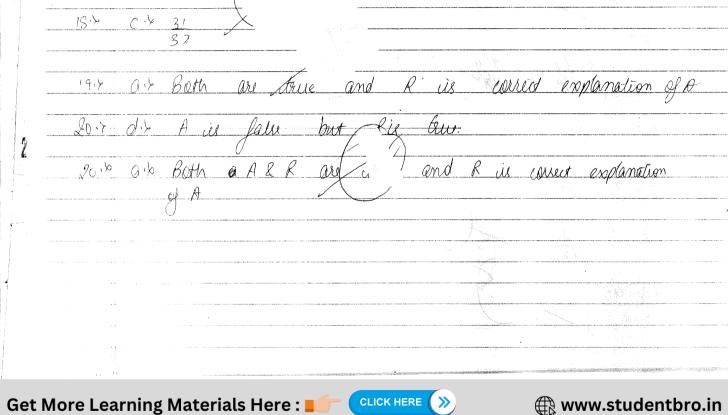
0/x 2 -4.A

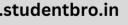
22+3× 22

7.4 b.4 x =1.5

8.6 At 7 d.6 -16x

10.6 b.8 secx + tano +C





Section -B D.D. LHG

Now, Put 220, in f. (21) As, f(n) = 1As, f(n) = 1 f(0) = 1 f(n) = 1**CLICK HERE**

 $\lim_{n\to 0^+} f(n) : \lim_{n\to 0^+} \frac{\sin^2 n}{n \cos n^2} = \lim_{n\to 0^+} \frac{\sin^2 n}{n \cos n^2} = \lim_{n\to 0^+} \frac{\sin^2 n}{n \cos n} = \lim_{n\to 0^+} \frac{\sin^2 n}{n$

 $\frac{1}{2} \lim_{h \to 0} \frac{\sin^2 \lambda h}{h^2} \times \frac{\lambda^2}{\lambda^2} = \lambda^2 \lim_{h \to 0} \left(\frac{\sin \lambda h}{\lambda h}\right)^2$



$$|\vec{a} \times \vec{b}| = \sqrt{(20)^2 + (5)^2 + (-5)^2} - \sqrt{400 + 25 + 25} \Rightarrow \sqrt{450}$$

$$= 15 \sqrt{2}$$
Acros of parallelogram = $|\vec{a} \times \vec{b}| = 15 \sqrt{2}$ 8g. and
$$|\vec{a} \times \vec{b}| = 15 \sqrt{2}$$

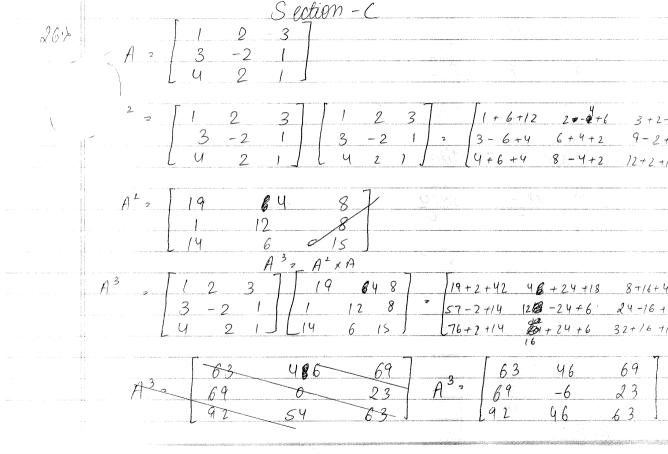
$$|\vec$$

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 \vec{g} $(\hat{i} + 2\hat{j} - \hat{k}) + \lambda \left(\frac{1}{5}\hat{i} - \frac{1}{7}\hat{j} + \frac{1}{35}\hat{k}\right)$

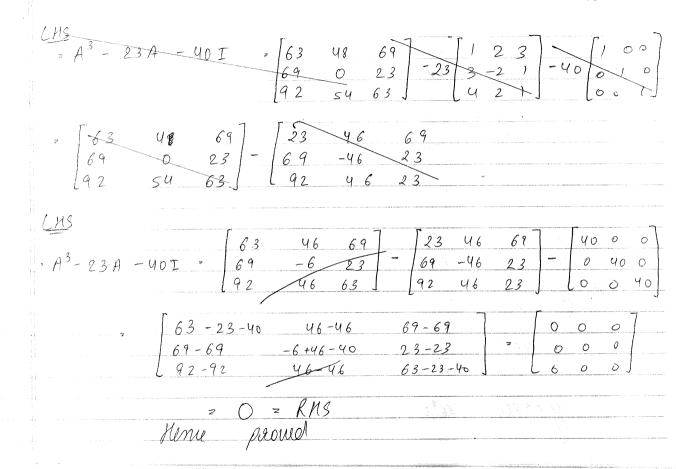
Required din in



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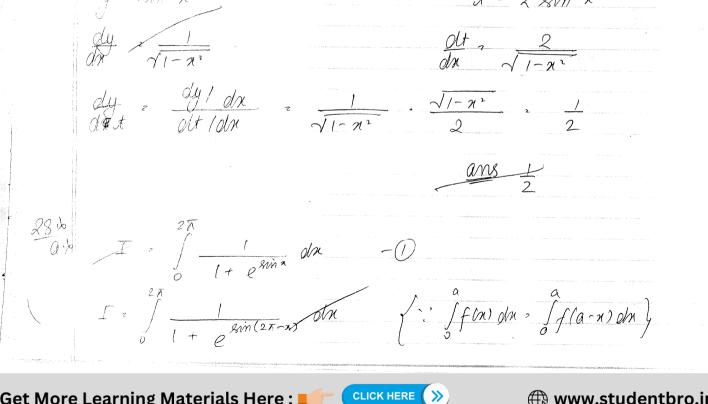
 $\frac{d^2y}{dn^2} = 8e(^2x + 8e(x) - tanx) = 8e(x + tanx) + 8e(x + tanx)$ $\frac{d^2y}{dn^2} = 8e(^2x + tanx) + 8e(x + tanx) + 8e(x + tanx) + 8e(^2x + tanx)$ $= 8e(^2x + tanx) + 8e(x + tanx) + 8e(^2x + tanx) + 8e(^3x + tanx)$ y, y, $sec^{-1}\left(\frac{1}{\sqrt{1-n^2}}\right)$ t = 8in (2nd1-2-) W x2 sin & o y · 860 - (\(\sqrt{1 - 8\dot{n}^2\tau} \) t, sin-1/2 sin (0/1-sin20) y 2 sec- (sec + 0) t 2 sin 1 (sin 20)

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t = 20

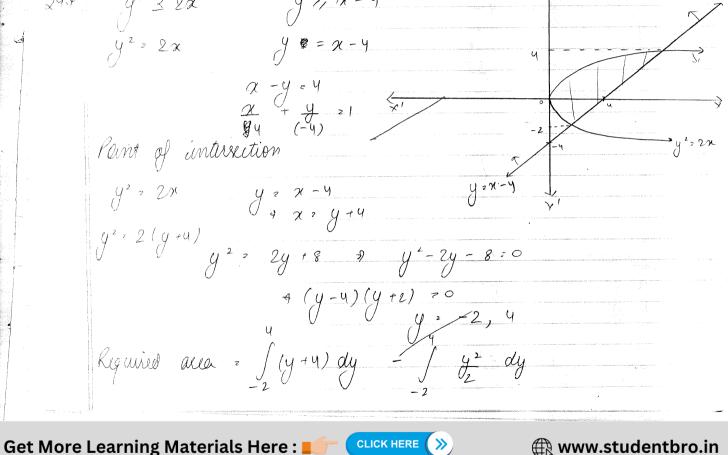


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$$30 - 12$$
 /z 18 sq. und $30 + 12$ /z 18 sq. und 12 /z 18 sq. und 12 /z 18 sq. und 12 /z 12 /z 18 sq. und 12 /z 12 /z 12 /z 12 /z 13 /z 12 /z 12 /z 13 /z 12 /z 12 /z 13 /z

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$$M^2 - 29 \over 2$$
 $M^2 - 29 \over 2$
 $M^3 - 29 \over 2$

 $\vec{a}^2 + \vec{b}^2 + \vec{c}^2 + 2 \vec{b} \cdot \vec{a} \cdot \vec{b} + 2 \vec{b} \cdot \vec{c} + 2 \vec{a} \cdot \vec{c} = 0$

 $|\vec{a}|^2 + |\vec{b}|^2 + |\vec{c}|^2 + 2(\vec{a}.\vec{b} + \vec{b}.\vec{c} + \vec{a}.\vec{c}.\vec{a}) = 0$

 $9 + 16 + 9 + 2 (\bar{a}.\bar{b} + \bar{b}.\bar{c} + \bar{c}.\bar{a}) = 0$

2 M = -29

$$dx \ \vec{a}_{2} - \vec{a}_{1} = 2\vec{1} + \hat{g} - \hat{k}$$

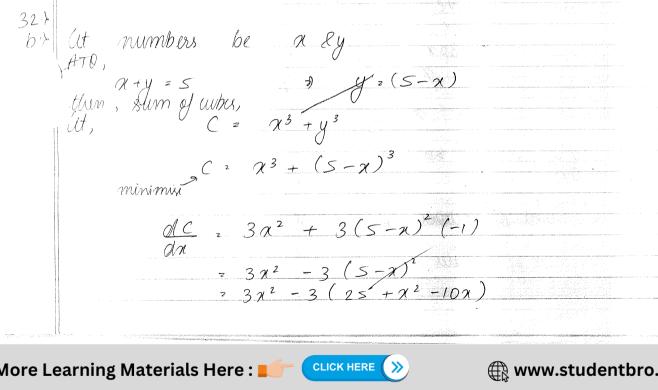
$$|1\vec{b}|^{2} \sqrt{4 + 9 + 36} = 7$$

$$|2\vec{a}_{2}|^{3} |4|^{2}$$

$$|3\vec{b}|^{2}$$

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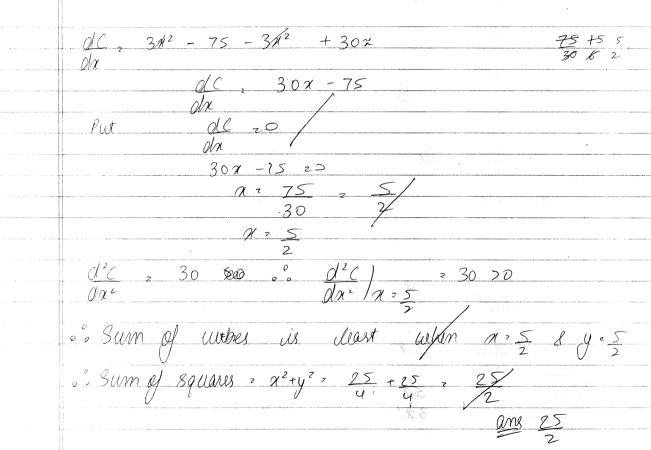
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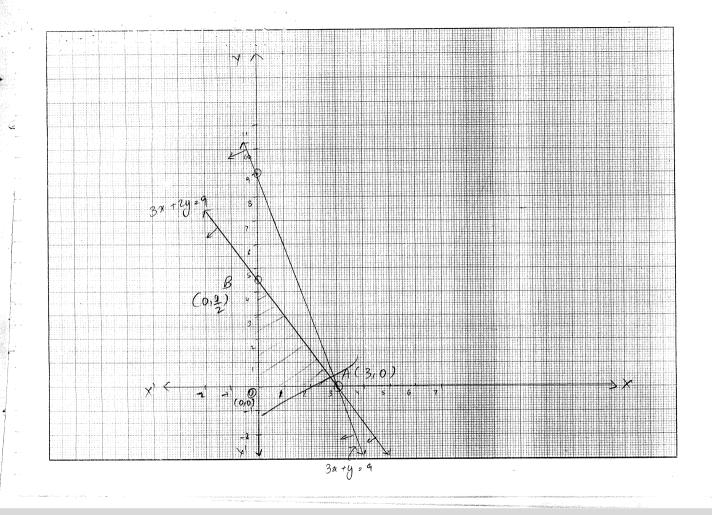


time

Section -D

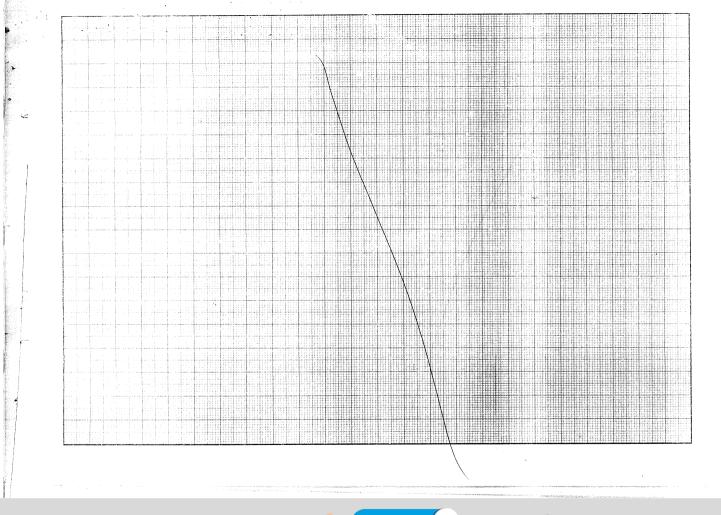
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1/2 33.7 T = [sinex tan' (sina) dx = 12 sina wsu tan' (sina) dx 3 Oct 2 com on I - 2 f t tan' (t) At let I; = Jet tam't elt $T_1 = \frac{d^2 + 1 - 1}{2} \frac{d^2 + 1 - 1}{2} \frac{dt}{dt} = \frac{d^2 + 1 - 1}{2} \frac{dt}{dt}$ $T_1 = \frac{d^2 + 1}{2} \frac{dt}{dt} + \frac{1}{2} \frac{dt}{dt} + C,$ $T = 2 \int \frac{d^2}{2} \tan^2 d - d + 1 \tan^2 d$ $=2\int \frac{1}{2} tam^{1}(1) - \frac{1}{2} + \frac{1}{2} tam^{1}(1) - \left(0 - 0 + \frac{1}{2} tam^{1} 0\right)$ CLICK HERE

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$$\frac{2}{3} + \frac{4}{9} = \frac{2}{3} + \frac{4}{9} = \frac{2}{3}$$

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 $I = 2\left(\frac{\overline{\Lambda}}{8} - \frac{1}{2} + \frac{\overline{\Lambda}}{8}\right) = 2\left(\frac{\overline{\Lambda}}{4} - \frac{1}{2}\right)$

Subject to constraints. P = 70x + 40y

 $3x + 2y \leq 9$ $3x + y \leq 9$

3x + 2y = 9 3x + y = 9

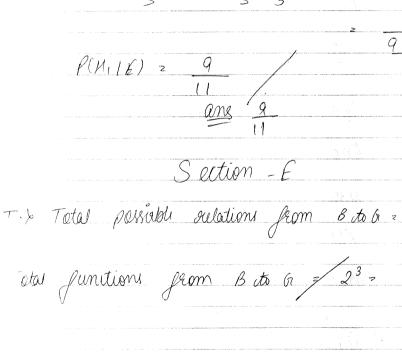
 $J : \Lambda - 1$ and $\Lambda - 2 : \Lambda - 2$

fut 0(0,0) in P : @70(0) + 40(0) 2 0 Put B(0,98) un P: P= 210 + Maximum Put B(0,98) un P: P= 200 189 o. Manimum valu of P is 210 at (3,10) E: He answerd correctly Hi: He knows the answer He: He guesses ethe answer P(H2) = 2 P(E/H1) = 1 P(E/M2) = 1 From Bayes Theorem P(H1 / E) = P(N1) P(E/N1) P(N1) P(F/N1) + P(N2) P(E/N2)

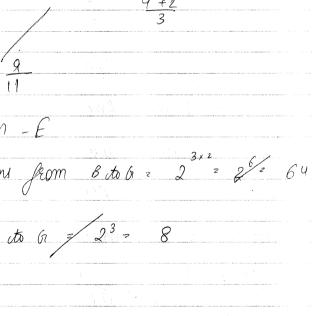
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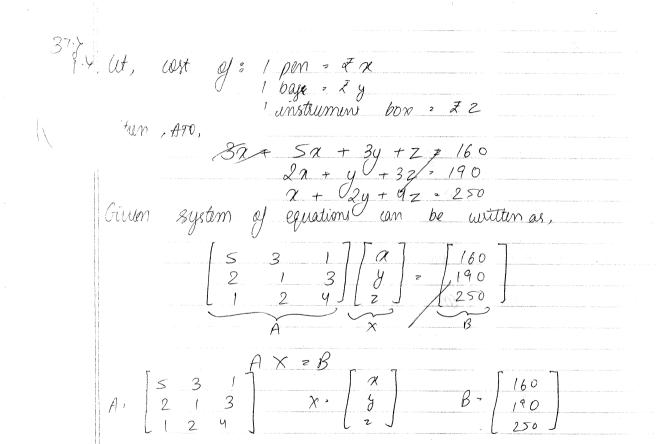
P(MILE) = _



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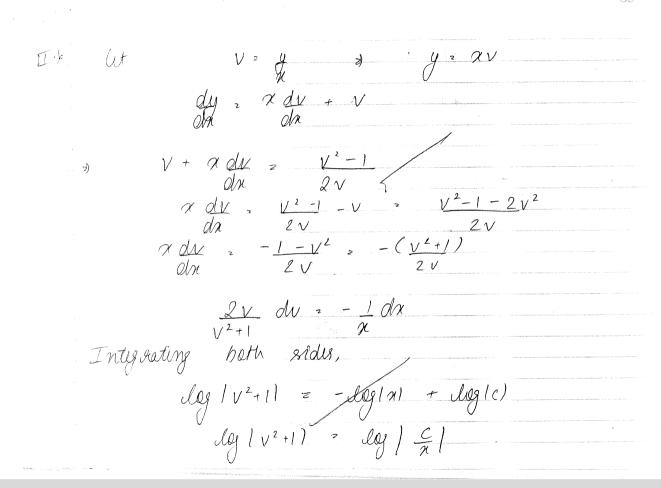
TIT > 2nd option f = { (b,g,), (b,g,), (b,g,)} It is not byective as $f(b_1) = g_1 + g_2 + g_3 + g_4$ o Tt is not one one as for b, 2 b3 are related to some element g; hence it is not bijection





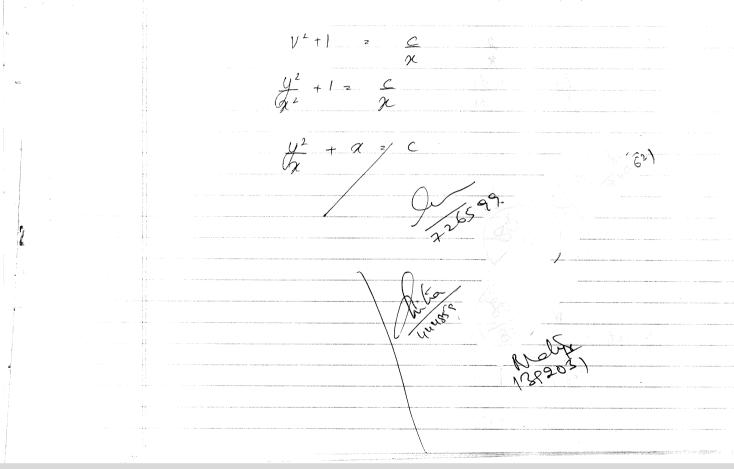
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 (x^2-y^2) dx + 2xy dy = 0





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