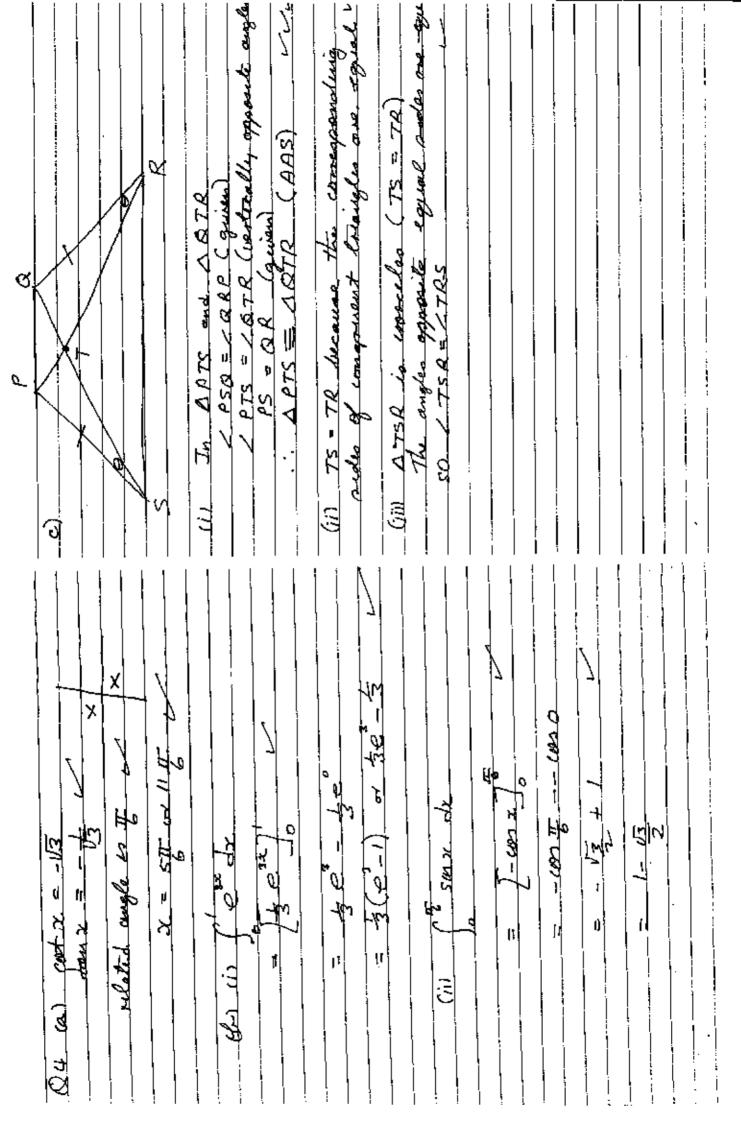
SGS Touch 2003 212	
2 = 7	2 (a) 22 dx = (mg (x2+1) +C ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
(II) -8-4-13 = -(II)	Came of they borne long Compte
(b) (i) $(3x+i)(x-i)=0$	wany about a
	(4-111) 4+R = -2(3-6)
20 = -3c2m + 72	4 + 8 = -2x + 12
27 = 3500	
202 " " "	
$(a)   3m^2 = 2(m^2 - a)$	Com salve same Simulated cousty
	Ø 0= 7
l t	12-4+8 = 0 @
1	add 0+0 4x+4=0
	7 6
$(a)  (b)  d = 57^{2}$	50 (-1, 6) dien an both.
X	6111 OA = 1/ (21)+(12-6)
$(i) \qquad \qquad \omega = S M 2 x$	
۱	
dx	= 305
	(10) dest Pl = 2x6+(-1)*(-4)+8
	25 + 85 + 67

t) = 000 = 4 = 000 = 4	A3. (B) U) 4 = -(03)
X = 2x	du = x =
2 Files	12 = 1 = 100g
$(C)$ (1) $Cos C_1 = a^{r} + b^{r} - c^{r}$	(ii) y = 2 wow x = y (ii)
	(2000)
2 × / × ø	
**************************************	ab. a=13.
69	(i) 13 + 55d = -Z.
1	755
25	
(i) 35° (ii)	$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} + \frac{1}{2} = \frac{1}{2} = \frac{1}{\sqrt{2}} + \frac{1}{2} = \frac{1}{2} = \frac{1}{\sqrt{2}} + \frac{1}{2} = $
	-2,13
(iii) (2144 = 7 at 50)	
t i	
	7
	one transment is the me
	1
	other
	(ii) 2+2 = 32c
	(x+2)(x+16) = 33.2



3		7670	$\mathcal{X}$				Member of ablebanis do 2.					
	15. log 64 = 3 day 2	= 59 60/	7 = 4	El-) (i) 12% p.a = 19 per month.	and = \$3000 (1.01)	(ii) Ind n if stone = 3000 (1.01) "	1 63	10 5 5 2 10 10 10 10 10 10 10 10 10 10 10 10 10	 (ii) ansa = 4 & 31002 dx	= 12 \\ 2 sm2x \\ 0	[aws ] ws ] =	

₹,

	7 77 7
7	(b) (437-62-8/ch = 15
(i) v= x = 3t = 42t	د
\	-32 - 82
	į
	. 1
a who	15+51= 86
	72 = 46
(11) tend t white I=0	
0= (10-	4 = 4 V
t= 0 ad all Accords V	
63 cl. t	
3.62 - 423	
0 1	
( 30 of 14 alteres	
6) 6t-42 =0	
1 2	
-1	
(iii) £3.2122 >0	
426	
4-21	
52/	
It is to the right when to some the	
or 21 Acremes	

	1/1 - K - K K
-	
7	
31 /	
- - -	
(ii)/ = (ii)/ = (iii)	
_	William Command = (12 t 1+2)
7	
	(tr) 10 / 10
- 4T \ 3M 3	
49 ( s/4) 2 Jet	-= (135.7 to (120) - (01 ta) a) +351) =
7	= 135+23.025
17/ * 430	
110 71 11	+ 15B C
7,08	
(b) (1) -t=g K= 18 # 17	
7	
10 0 - 10 T	
1	
- 1/ Jam	
<u>g</u>	
(ii) or t-300 10 -30 and R-215	
14	

7 (55-0-1) SEA ) A+18=	= 81 ± 3P (1-0-25)	(iii) 81 + 3P(1=0.25) > 20D	0.75	σ- V)	3(1-0-05)	P > 119	P > 68.6	50 P * 69.	/t 47		Alember of	baush	3 6	Time in years
	(a) asc Tx dx	240 C	777	= 2 ( day II - day II)			LAS C. = 0D + 30 <sup>1</sup>	3	"	$= 2n + 3n^2 - (3n^2 - 4n + 1)^2$	= 20+30 = 30 +40 =1	4	4	(ii) 1st lot of P plants hereause P(075)3

Som of 6P a=0.25 p=0.35 H=3

70-1007

(b) db = -k P	(1) p = Be-tot	(1) when t=0 P = 3060	(m) t=2, 1530 = 3060 P-24	n con	= 12 (03.2)	(W) C=3 P = 3060 C 24, 1082 = 3060 × 2 42
$\frac{q}{(a)} \qquad \qquad \ddot{x} = e^{-st}$	=-0 (i)	10 C = 3 + C	(1) T+ 40 stationary when - = = = 0	The has only one adulton, t=0		(40°41) - (40°40) = (40°40) - (40°40) = (40°40)

1	
(ii) 50 = 2040 P = 1	
     	(2) P = 27 + 20
305	7 7(2+8)
1 5 = 6 2 Ch 2) t	
306	(ii) 36 = \(\tau(2+\alpha)\)
	50 7 = 36
	2+⊖
79e	A = 4 22 B
-2 log 2	l
	2 (246)
7 cross 40cs:11 =	
 	= 6480
So light out theres. 11.9 wears	(2+0)
ordo	
Le desing 2017 during 12012	(iii) JA= (2+0) 648 - 648 0x2 x (3+0)
	db (2+0)4
	9 96C1 - 94A(A+C) -
	$(2+6)^3$
	= 1296 - 64KB
	(2+6)

(iii) dA = (2+0) 648 - 648 0 x 2 x (2+0)	de (2+0)*	(2+0)		= 1296 - 64KB	(2+Q)		at mentione dA = 0		contine 1206-648 = 0 V	1296	-34.9	7 6-	
--	-----------	-------	--	---------------	-------	--	--------------------	--	------------------------	------	-------	------	--

14 - Had bear possible 4 (42)(2) þ tr + cramt my a since G \$0 decand 4 (4am) 160 m - Trace Sattle الآا المحد at 0=2. 1 Ŋ 1 d MOX/42047  $\mathcal{O}$ EX 3000 S ... 12 Q have Neg 3 40 3

eguelsono (3) 18 + MC = Die

ς. 1 Son O

Born @ S 3

S

42 + 40mt - 40

say sometan glow

\* KM \* SO CUE LABORE

12 am X

4a - 4amt = Ct