2000 NSW INDEPENDENT TRIAL EXAMS MATHEMATICS SUCCESTED S070710vs LUNIT SouTIONS

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incuracina 1680 and	(11) Rate same but	(6)(1) 1988	$=2\left(e^{2x}-e^{-2x}\right)$		(m) 2(0-x ex-ex)	RY	= /- logx	(ii) $x \cdot \frac{1}{x} - \log x \cdot 1$	(a) (1) x suc 2x + tanx	\mathcal{O}_{z}		(4,2) solution	7 = 7 7 = 7 7 = 6	, x	(3)4(2) 7x = 28	(f) ba-3y=18(g)	-2 4 × 4 4	(e) -4 5 2x 5 8	= -2	= 1/2-1 - (1/2+1)	(d) 12-1 - 15-1	(c) log ((334) 2) = 13/4	_(i (200			(a) 0.111246314 = 0.111	0,
11 12	AB . 12-1032	. Ac = 1212	316 = 2.40.1.13	(v) A = tab vm c	SA0 = 60°	(11) ton 18A0 = K3	(11) m = 1/3	8(0/3)	8: 2=09-4+18=0	A(-1,0)	(b)(1) A: y=0 > 13x+15=0	(1) - 2 tan (1-2x) + C	" but + 2 + c	= ln t + 2t"+c	(a) () (± - 25-2) dt	Q3		ACE = 20°	ACE + 350 = 550	BCE = 350	550 +900 + 8CE = 180	(1 sum of 08EC)	ABC + CEB + BCE = 180	(11) CÉB = 90° (AB L OC)	ACB = 55°	(have to of was DABC)	ABC = ACB	(att 16 OH//80)	(c) (1) DAB = ABC
		(the of off rides = and 11)	" AFBO to a farm	(corre siale in cong d'é)	(11) Bloo AE = DB	corn to equal)	.: AE /108 (ham &	(core L'o un cong O'o)	(11) :: AEB = DBC	DABE = DOCB (SAS Text)	AGE = OCB (att L'o AB/10)	BE = CB (data)	AB = OC (sides of shombus)	(G)(1) In 15 ABE, OCB		= 1+816 = 2.54	= = = = = = = = = = = = = = = = = = =) come to	/3	+	2-204-204-1=0	20 4 - 20 4 = - 20 +/	y-e+= -1/2-1)	- Equation of normal is	m, = -1	m, - 2e +	y'= 2e 2x	(a) x:1 y:02	\mathcal{O}_{u}

decreasing increasing

 \mathcal{G}

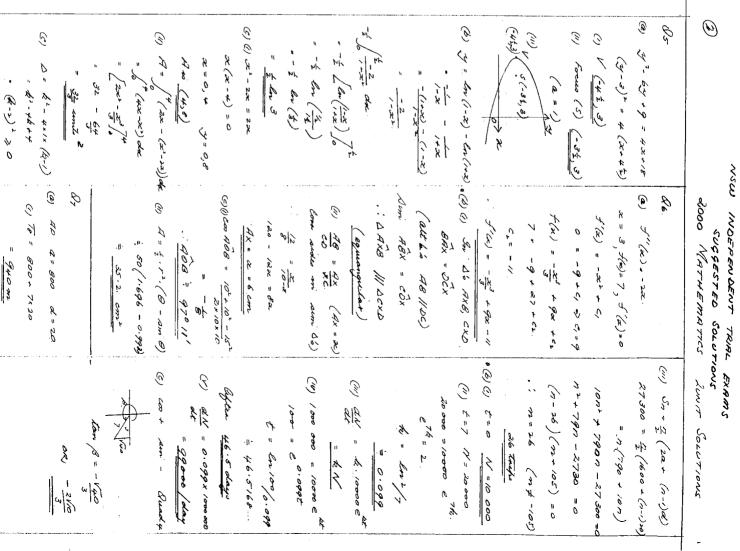
- Real Roots .

(11) 1400 = 800 + (11).20

20n = 620

BC = 1212-2

1980 and 4861



	(M) Twice = 3 cm		= /350 m 3
	(v) Max x con st-1		Max V = 17. (315)2.30/6
	- · 4x		= 30/15
	$u = -\mu (3 con 2t)$		(14) h= 135 -(345)
1			1" = -6TT LO Max
	ond terms to	0	
	2t = 0, 17, 217,	= e-20(0)	(11) V'= 13577 - 377 + 3
	-bam at = 0	= e-2x (4x-4+4-8x+4x)	
	(W) At rest v=0	· 6"+ 45"+ 45.	
	ce direction positive	=4e-1x/x-/)	135 = 72 + 75h
	= -6x-0.757	y"= -20-22 - 20-24 (1-2x)	(b) (1) 270 n = 2 n r + 2 x r h
a Prince de la constante de la	v=-bant	= e-2x (1-2x)	
	(11) t= 2 seco		(14) Mun Value so -7
	v = - 6 am 2t	(c) & = oc.e - 2x.	(2-3),
	(i) 2 . s.	\$51 shout	2
	3	- #/5 Que	
	77.77	S20 = 4000 (1 - (3))	20,120
		(11) do donationo	(m) (-2,0) (s,-7)
	(b) (1) 3 x = 3 cm 2t	\$16000	(-1,-7) Man T.P.
		" +coo	₹":/2>0
		0 8 " 4	00=-1 4=-7
	(r) L. J. L.	10 12 = S	(3,25) Marc 7.0
		= 1277 unix 3	\$ "-13 KO
	7.7.7.7.7.4 4.7.7.7.	0	æ= 3, 4= 25
	10 000	(1) V = 12 /e 25/	oc = 3, -/.
	3439	= 17 /o e is dy	(oc-3)(oc+1) = 0.
	= 1 - 6561		22 - 24 - 3 = 0
	/ - (2) *	x=0	- 3x2 + 6x + 9 = 0
	(11) 1 - P(0 correct)	2:14:0	(1) St PG 7' =0.
		R 11	y' = 6 - 6x
	(a) () to . to . to = 10000	(a) (1) y = loyex	(a)() y'= 6x - 3x2+9
į	820	R.	Q8
	Quant Solutions	Ĭ Ÿ	(3)
	9ms	INDEPENDENT TRIAL EXAMS	Nsw
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