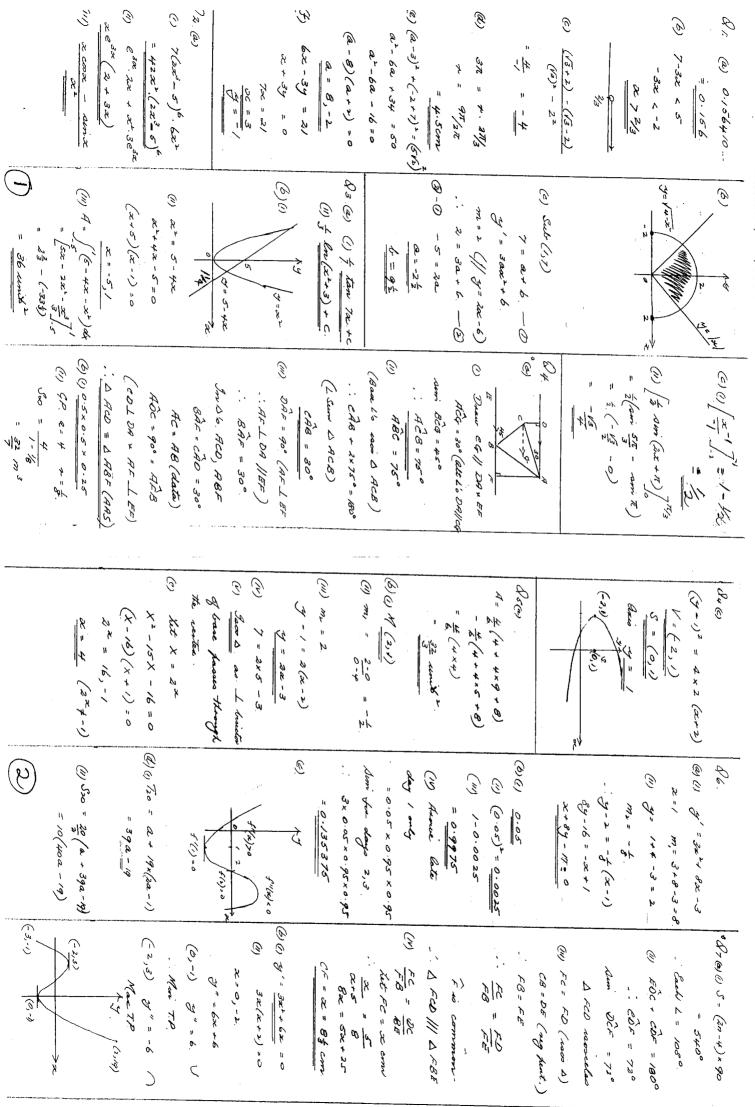
NSW INDEPENDENT TRIAL EXAMS –2001 MATHEMATICS (2 unit) SUGGESTED ANSWERS



	$2x = \frac{\pi}{3}, \frac{5\pi}{3}$ $x = \frac{\pi}{4}, \frac{5\pi}{6}$	(11) cos 2x = ± 0 > 2x < 2T	y=1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	$cone \alpha = + \frac{129}{2}$ $cone \alpha = \frac{1}{2}$ $cone \alpha = \frac{1}{2}$	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(b) co < 0 tan < 0 Quart 2.	(n) do t > 0 e-u2>0	t = 0 a = 6 - 40 $t = 0 a = 6 - 40$ (11) $a = 160 - 40$	
3	u after 5 days	t = hu 4	(1) 12000 = 3000 E 4 = 60.00 E 0.000 = 260.0	to = ln (45) to = 0.39 20.39 (11) t= 2 P = 3000 c	(b) (1) t=0 P=3000 (11) Assoc = 3000 e k e k = 4/3	when x = 2/3	A" = -4 - 6x x = 3 A" = -4 - 6(3) <0 Man value of A	for Max, Min (2-3x)(2+x)=0 x=33,-2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
= \$12391.77	1000000 = P(1.1)(1.12°-1) (1.12-1) P = 1000000 x 0.12 1.12(1.12°-1)		Sim Is = P(112) (1.12+1)+P + 12% [P(1.12) (1.12+1)+P] = P(1.12) {(1.12)^2 + 1.12 +1} (11) Iso = 1000 000.	(+ (1.1) ((1.1) = (-1) ((1.1)	I, = 80 + 127, 87 \$10 = \$10(1.12) (11) I2 = 10(1.12) + 10	(6) (1) het In = value of someitment after nyo	Ro U < 0	(b)() \(\Delta = (-5)^2 - 4(3)(6)	8,06) 8,06) 8,07