	BA PRE-SESSION	<u> </u>			
	MATHEMATICS	0/			(i) C
Problem 1.1)	$2^{33+7} = 2$				
	291212 7	<u></u>		7.7	
Problem 1.2)	82 x 8x = 84		£ = _	11 - (3 M) . C 1	102 000
,	824x = 84		Ç.,	-/11 not	
	2+x = 4			(¿ , ,	
	x = 2				
Problem 1.3)		y4 = (1)4	= _		(1 - 2 A)
TYODIEM 1.5)	y = 1 x 3	$\frac{y^4}{y^4} = \left(\frac{1}{3}\right)^4$	<u>5</u> 81		
0)	21	4 1,	Zi i i i i i i i i i i i i i i i i i i
Problem 1.4)	414	$\frac{\mathbf{y} \cdot \mathbf{y} \cdot \mathbf{y} \cdot \mathbf{y} \cdot \mathbf{y} \cdot \mathbf{y}}{(\mathbf{x} \cdot \mathbf{y})}$		(2-1) -1-1	The Cardio St
		() 20			
Problem 1.5)a.	TRUE C.	FALSE		'yE = 37' ≠	(00 m/g/.0
Ь.		FALSE	GI =	(5) - (3-) 111	
Problem 1.6)	$x \ge e^e$ (e^e)	<u>a] (18)(8) }</u>) - (P.F)	$(1-2r) = (x)^2$	(remindo
			X (1 - + x -)		
Problem 2.1)	F = a+bC	C=0, F=32	8-1 - 10	= 100, F= 212	
		32 = a+b(0)	ີ ລເ	Q = a+b (100)	
		a = 32	ລເ	2 = 32 + 1006	(c.E. m. Jaco
	F = 32+1.8C		۶	= 1.8 = 11	
45 0 4 X		O torns t 50		the Market Confin	
	1.8	,		61-481 = E	
M4-10-10-10-10-10-10-10-10-10-10-10-10-10-	- C = 32 + 1.8C		Ç	1-5-61=0 *6	
	c = -40			1 ± = 10	
2		2000 100 101	ω 1Ω		
Problem 3.2)	7(4) = 54-1	24 11:110 22	2/3	15 - 244 A	
	0 = 39 = 12	(W/1 /2:34)/ *** / * *	N 314	P-8 = (E E) I	The Board
	y = 4.			F-0 = 12 614	
Problem 2.3)		= 2		1	(P. F. maknos)
	$\chi^2 = 6\chi$				TE F THEOLY
	x = 6	,			
1					

Pohlan 2.4)	$\ln\left(1.03\right)^{2} = \ln(3)$	1				
TODWIL ar-1)	2= (h(3)/(ln(1.03)) = 37 years					
		57.30				
Problem 2:5)	$\pi^{\log_{\Pi}(\frac{1}{H}s)} = \pi^{-s}$	(S. s. accer				
	$log \left(\frac{1}{\pi^s}\right) = -5$					
	$O\pi(\pi^s)$: $P = x + S$					
	Q = X					
Problem 3.1)	Sum of infinite geometric series = = = = = = = = = = = = = = = = = = =	(ê1 0, 0				
Problem 3.2)	"23, 21"	(P.I. MOJO)				
Problem 3.3)	$f'(x) = 3x^2$ 32.07 3.097	"-D(<1 miles				
	At $(-2, -12) = 12$, $= 200$	d				
Problem 3.4)	$f'(x) = (\chi^2 - 1)(5\chi^4) - (\chi^5 + 3)(2\chi)$	(Del reprose				
	$(\chi^2-1)^2$					
	DIE= 73x6=5x4-6x DE=7 C=3 DOTD =7 (16 100					
	$(901) d + D (x^2 - 1)^2$ (3) $d + D = CE$					
Problem 3.5)	$f'(x) = 9x^8 = 66$					
	$f''(x) = \frac{1}{2} = \frac{1}{2} = \frac{1}{2} = \frac{1}{2}$					
Problem 3.6)	No. 1/2 is continuous at all x except 0. It is undefined	at n=0				
Problem 3.7)	$d = 12n^2 - 12$					
	$0 = (2n^2 - 12)$ $-31 + 68 = 2$					
	$x = \pm 1$					
	di = 24n At n = 1 -> local minimum = (1)					
	dx2 Atm = -1 -> local maximum = 0					
Problem 3.8)	f(2,3) = 8-9					
e*	= -1:	(EC mildus)				
Problem 3.9)	x-3y>0					
	x>3y, x is tive					
June 18 dig o		_Bing()				

Problem 3.10)	$\frac{d}{dx} = 5y^{7}n^{4} + 2x$
	dx U y3
Problem 3.11)	try -x-y
	No local maxima
	No local mínima.
Problem 3.12)	
Problem 4.1)	B.A 1 0 1 2 5 = 2+0+7 5+0+6 = 9 11
roblem in	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
<u> </u>	
Problem 4.2)	H.B 0 1 8 4 0 = 0+2 0+1 0+2 = 2 1 2
	[12][212][8+4 4+2 0+4][12 6 4]
Problem 4.3)	Transpose = e 2 4
ř	93 G.1 TT
	4.7 4.22 0
Problem 4.4)	det = 16-12
14012WIII 11.17	= 4
	= 7.
	(2)
Problem 5.1)	Sample space is total no of possible outromes. 62 = 36.
Problem 5.2)	Probability that The drug test is drug user = 24.6%
Problem 5.3)	P(5) = 16
	$RV = \frac{1}{6} \times 20 = 3.3$
•	
2	