OLABISI ONABANJO UNIVERSITY, AGO-IWOYE

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2009/2010 HARMATTAN SEMESTER EXAMINATION

COURSE CODE:

MAT 101

COURSE TITLE:

Time: 2hrs

INSTRUCTION:

ANSWER ALL QUESTIONS

APRIL 2010

NAME: Matric No:

DEPARTMENT:OPTION:

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1. Solve for y if 9 - 4(3) + 3 = 0 Re-wite the equation to have	Foretorise P2-3p-P+3 20	Recoll p=3	30-20-3
a Common base 1.439(2)-4(39)+3-0			
(ct 34 - P	(P-1)(P-3)=0	W/20 P=3,	B'=34
$\Rightarrow P^2 - 4P + 3 = 0$	P=1003	=> y=1	

2. A sequence is defined by the rule $a_1 = 0$, $a_2 = 2$ and $a_r = a_{r-1} = a_{r-2}$ for r > 2 find the sum of the first six terms of the sequence.

4-0 112-2	2-2	1.46 = 45-44
		U6 = -2-0 = -2
		U1 + 42 + 42 + 44 + 45+6
411 - U2-U2	4-2-2	=0+2+2+0-2-2=1
	The state of the s	

3. The first term of an A.P is 3 common difference is 4 and all terms is 820. Find the number

of terms and last terms. $\frac{1}{1-3}$, $\frac{1}{1-4}$ and $\frac{1}{1-3}$	tarmin-
-2/29+(n-1)d] 2xxx 1=3	1 (20-1)
2 n = -2 + 426244 L =	7-9
20 = 2 (2×3+(n-i)4)	
$ \frac{1}{n[6+4n-4]} \left \frac{1}{n=-2+162} \right $	