NAME: ALEGBELEYE OLUWATOSIN OLUWAPELUMI

DEPAERTMENT: COMPUTER SCIENCE

MATRIC NUMBER: 19/SCI01/015

ASSIGNMENT

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	NAME: ALEGBELETE DELINATUSIN DELINAPELINI		
	DEPARTMENTI COMPUTER SCIENCE	A CONTRACTOR OF THE PARTY OF TH	· wije
	MATRIE NUMBER: 19/50001/015		t an
	ASSICINMENT	A A STATE OF THE S	
1-		TARREST V	
	B= i+3j+7K		- 1
	C=91-41+6K		
0	Angle between A and c		
	A.C = (3i+7j-2K). (9i-4j+6K)		-
	= 27-28-12		
	= -13		
-	$1A1 = \sqrt{(3)^2 + (7)^2 + (-2)^2}$		- 1
	= 19+49+4		
	= 162		
	(Cl= \((9)^2+(-4)^2+(6)^2		
	= 181+16+36		
-	= 1133	45	
	COSD = -13 = -13		1 (3
	162×1133 40-808		
	t= CDS-1 -13		
	90.803		
	t = 98.23°		
(11)	Angle between B and e		
	B.C = (i+3j+7K).(9i-4j+6K)		
	= 9-12+42		
	= 39		1
	$ B = \sqrt{(1)^2 + (3)^2 + (7)^2}$		
-	= 11+9+49		
1	= 159		
	Value of the second sec		

Marie San Comment	$ C = \sqrt{9^2 + (-4)^2 + (6)^2}$ $= \sqrt{81 + 16 + 36}$		
	$= \sqrt{81 + 16.196}$		
	= 1133		
	COST = 39		
	. \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
	COSD = 39		
	88.583		
	D= COS-1 39		
-	88.583		
	0 = 63.88°		
		•	
(iii)	CA+B+C = A+B+C	,	
,	1A+B+C1		
	A+B+C=(3i+7j-2k)+(1+3j+7K)+(9i-4j+6K)		
	= 13i +6j+11K		
	$ A+B+C = \sqrt{(13)^2 + (6)^2 + (11)^2}$		
	= 1169+36+121		
	2 1326		77/
	CA+B+c = 13i+6j+11K		
	V326		-
		•	75
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		and the second s	
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			10.

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5	
2.	212 - 8t2, y=t2-4t and t+1, find modulus of acceleration
-	To h.
	re nityjtk
1	r= -8t2 i + (t2-4t) i + (t+1) K
-	Nelocity = dr = -16ti + (2t-4)j + K
	dt .
	Acceleration = der = -16i+2j
	dt ²
	$d^2r = \sqrt{(-16)^2 + (2)^2}$
4	$ dt^2 = \sqrt{256 + 4}$
	= \$260 or 16.134
(3-)	A=4i+2j-4K
	B = 8i - 2j' + K
	Ce i +4j -3K
	$(A \times B) \times C$
	-(AXB)= i j K
	4 2 -4
	8 -2 -4 1 2
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$=i(2-(8))-j(4-(-32))^{\bullet}+k(-8-16)$
	= -6i - 36j - 24K
	$(A \times B) \times C = \begin{vmatrix} i & j & k \\ -6 & -36 & -24 \end{vmatrix}$
	1 4 -3
	$=i \left -36 -24 \right -j \left -6 -24 \right + \kappa \left -6 -36 \right $
	21 36 21 23 2 1 -3 1 -47
	= i (108-(-96))-j (18-(-24))+K(-24-(-36))
	= i(108+96)-j(18+24)+K(-24+36)
	2 204i - 42j + 12K