	***************************************	Ž	× 4 H			1 1	Marne 19 Subject N Date 4	
BxC -		$K = 121 - 21 - 39$ $K = 121 - 21 - 39$ $K = 121 - 21 - 39$ $V = 141 + 4 + 1821$ $= \sqrt{1669}$	2A+4B-C=2(2))++(3)+j-11K)-41-4j+5K		-3A+7B-8C=-3(21-j)+7(31+j-11K) $-8C+1+4j-5K)$ $-61+3j+211+7j-77K-321$	A = 2i - 3, $B = 3i + j - 11K, C = 4i + 4 - 5K$	Injang Peculiar Injang 1915 Na 041028 MAT 102 4/14/20	
t-0 x	39/11669 2/11669 39/11669	= 41+121 -41-2j+4j-4j+4yK+5K = 121-2j-39K - 121-2j-39K - 121-2j-39K - 1669	1 41 -21 +1	2-6,+21,-32,+3,+7,- 40K	-8C+ 1-6:+3j	1 8c	28 Inc	
	م ما	-391K	21+47-44	-32i+3j+ 22j-37K	1+1(3î+j +21:+7;-	1 +J -11K	aro	
A) SPARI		15+ XX+ + 2K	15+[4-17-4]+5]	40K -17,-22,-37K	c = -3(2i - j) + 7(3i + j - 11K) $-8(4i + 4j - 5K)$ $-6i + 3j + 21i + 7j - 77K - 32i - 32j$	-f+!+2		

1 | 1 - 11 | - 5 | 3 - 11 | + K | 3 1 | 4 4 i(-5-644)-j(-15-6-44)) +n(12-4) 7(-5+44)-j(-15+44)+K(12-4) 391 -297 -8K  $A \times (B \times C) = 1$  K 2 -1 0 39 -29 -81 -10 -12 20 + N 2 -1 -29 -8 39 -8 39 -29 1(8-(-0)) - 5(-16-(0)) +K(-58-(-39)) i(8+0)-j(16-0)+K(-58+39) 81-16j-19K 111 (3AKB) - (AXZB)

BLANNO 3A = 3(21-j) = 61-3j

(61-3j)X(31+j-11K)= | J K

| 6 -3 0 |

=1-30|+j|60|+K#6-3|

=1(33-0)-j(66-0)+K(6+9) = 33i -66j +15K AX2B = 21- - X2(31+) - UK)  $A \times 2B = 6i - j) \times (6i + 2j - 22k)$   $= \begin{vmatrix} 2 & -1 & 0 \\ 2 & -2 & 1 \end{vmatrix} = i \begin{vmatrix} 2 & 0 \\ 2 & -22 \end{vmatrix} = i \begin{vmatrix} 2 & 0 \\ 6 & 2 \end{vmatrix} = 2i \begin{vmatrix} 2 & 0 \\ 6 & 2 \end{vmatrix}$ = i(22-0) j(-44-0)+K(4+6) = 22i-44j +10M (3AXB)- (AXZB) = |BAXB| |A XZB| COS O

VA-2B-C=21-1-2(31+j-11K)-41-4j+5K =2i-j-6i+22K-4i-4j+5K= 21-61-41-j-2j-4j+22K+5N 2-81-7j+27K 2 Perpendicular Mectors: Two vectors are said to be perpendicular if A-B=0 Coplanar Yectors! Three vectors are said to be coplanar if A. (Bxc)=0 Continuation of NO 1 3AXB=331-66]+15K 13AXB = N(332) + (-66)2+(15)2 2 11089 + 4356 + 215 2 1 5670 AX2BZ221-44, +10K [AX2B] Z V(222)+C-443+(10)2 = 1 484 + 1936+100  $=\sqrt{2520}$ (3AXB) (AX2B) = 5670 X +2520 COS U.V - 10/1/1000 COSO 2 U.V U. V = (33; -66j+15K). (22; -44j+10K) 2 726 \$ + 2904 \$ + 150 = 3780 COSO = 3780 V5670-V2520 =1 8 = 651 1 1

AD SPARK =