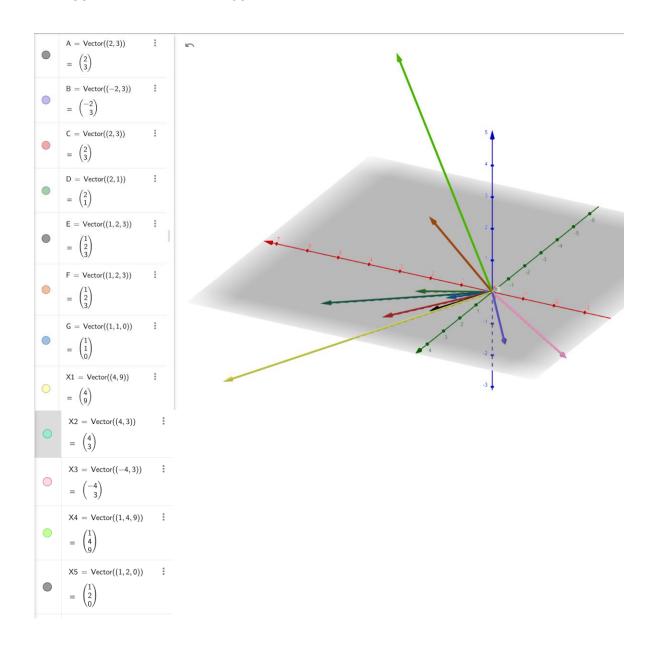
No: Date:
Assignment 2. Linear Algebra Date:
Given vectors A, B, C, D, E, F, G perform and sketch the following
imer ordarchs.
A=[23] B=[-2,3] C=[2163] D=[2][1] E=[123]
$b = \begin{pmatrix} 2 \\ 2 \end{pmatrix}$ $a = \begin{pmatrix} 2 \\ 2 $
1-153-161
$\begin{array}{lll} x_1 = (A)(C) & x_2 = (A)(D) & x_3 = (B)(b) \\ = (23)(\frac{2}{3}) & = (23)(21) & = (-213)(21) \\ = 2 \cdot 2 + 3 \cdot 3 & = 2(2) + (3)1 & = (-2)2 + 3(1) \\ = 4 + 9 = 13 & = 4 + 3 & = -4 + 3 \\ = -1 & = -1 \end{array}$
X+=(E)(F) (1) X5=(E)(G) (1)
= (123)(3) = (123)(0) $= 1(1)+2(2)+3(3) = 1(1)+2(1)+3(0)$ $= 1+2+0$
= 14 = 3
What is X6, if (X6)(G)=6?
G is a matrix of the same length as X6 full of 0's
TO TOTAL THE SAME HAYIN AS NO POLICE US

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NO:
Given a triangle with vertices AB, C and the matrices S, M, B, skeet of the
tronsformation that results from multiplying each matrix by the three vertices, for instance: A' > (S) (A), B'x(S)(B), c'=(S)(C)
                                                            cos(a) -sin
A=(0) B=(1) C=(3) S=(20)
                                                         R= sinla ) cos (a.
                                                                9=600
7 = (01)
                                 2(1)+(0)(1) 2(3)+0(1)
                       2.0+0.0
                   = (0.0+0.5(0) 0(1)+0.5(1) 0(3)+(0.5)(1)
                       0 2 6
                       0 0.5 0.5
                       1.0+0.0 1.1+0.1 1.3+0.1
                      (0.0+(-1)0 0-1+(-1)1 0-3+1(-1)
                              cos60-0+(-sin60)0 cos60-1+(-sch60)1 cos60-3+(-sch60)1)
 100560 -sen60
                              sen60.0+ cos60.0 son60.1+cos60.1 san60.3+cos60.1)
 sen60 cas60
                               0 cos60-son60 3cos60-son60
                               0 x0060 + c0060 3 son 60 + c0560
                               0 3- 5 3 - 5 - 5
                                 0.1+1.1 0.3+1.1
                                 1.140.1 1-3+0.1
                        0 1 3
```

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Black: Original Triangle

Green: S

Red: M

Purple: T

