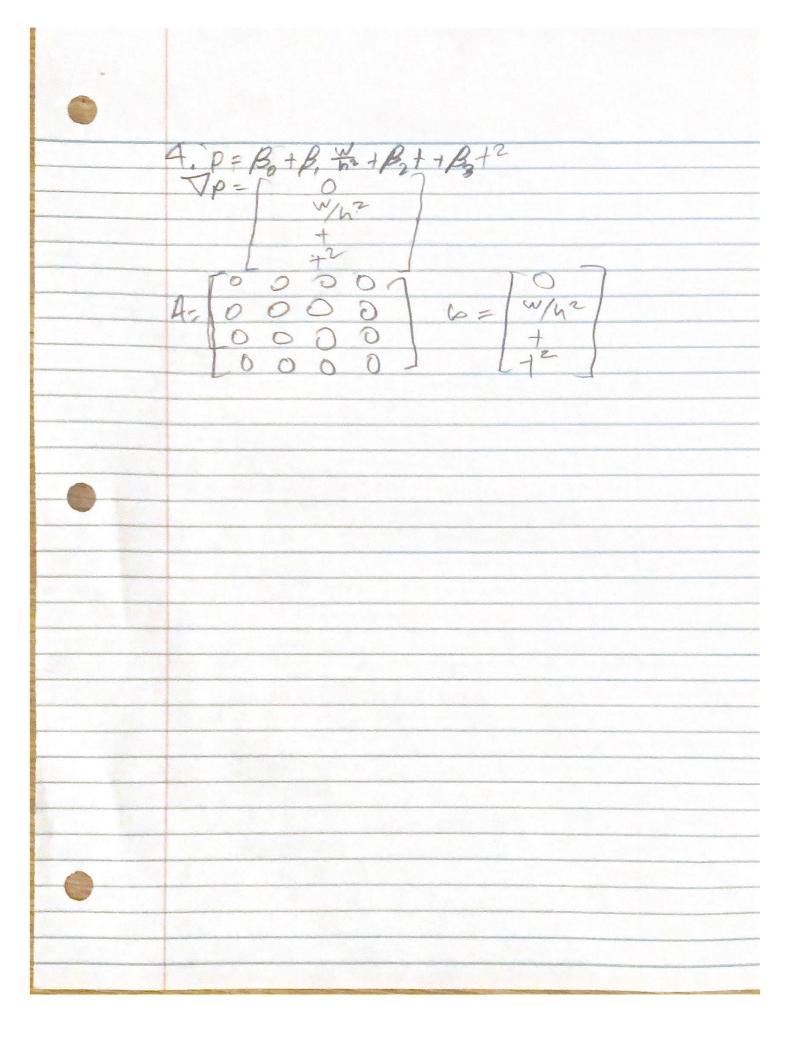
| | | Eram | Alex Ojemanu Or. Jones Curry Section 002 |
|---|---|--------------|--|
| | a. True b. False e. True d. True e true | | |
| | g. False g. False g. False g. True | | |
| 2 | 9-99 -910-7 Q-7 H | +RI | |
| | 0 1 2 9 - 7 14 9 - 9 9 9 0 1 2 0 2 5 | -R1]-ZRZ | |
| | 9-991 | [100][9-99] | |
| | 1-714 | 00011-117 | |
| | 3 0 0 0 0 3 2 1 10 | 00 3-33 300 | 7 (3-33) |

3. $U_1 = <1,-1,0 > U_2 = <0,3,0 > U_3 = <2,0,1 >$ let < a, b, c > $\in \mathbb{R}^3$ such that < a, b, c > $= \rho u_1 + q u_2 + r U_3$ < a, b, c > $= \rho < (-1,0 > + q < 0,3,0 > + r < 2,0,1 >$ $= < \rho + 2r, 3q - \rho, r >$ a=10+2r 10=39-10 c=r a=p+2r=p+2c p=a-2c b=3q-p=3q-a+2c 3q=b+a-2c q=3(b+a-2c) <a,b,c>= (a-2c)<1,-1,0>+1/3(b+a-2c)<0,3,0>+c<2,0,1> (x,y,z)= (x+2y-22 <-1,2,0> = (-1+2(0))<1,-1,0>+3(2+(-1)-2(0))<0,3,0>+0<2,0,1> $=-1<1,-1,0>+\frac{1}{3}<0,3,0>+0<2,0,1>$ <66,0> = 6<1,-1,0>+4<0,3,0>+0<2,0,1> <6,8,1> = -2<1,-1,0>+2<0,3,0>+1<2,0,1>Thus, the matrix representation IS/T-1 1/3 0



 $= \begin{bmatrix} 2 & -2 \\ -2 & 2 \end{bmatrix}$ $2-7) - 4 = \lambda^2 - 4\lambda = 0$ U= [-1/2 /22 V 3[-1/2 1/2][20][-1/2-1/2] [1/42 1/2][00][-1/2-1/2]