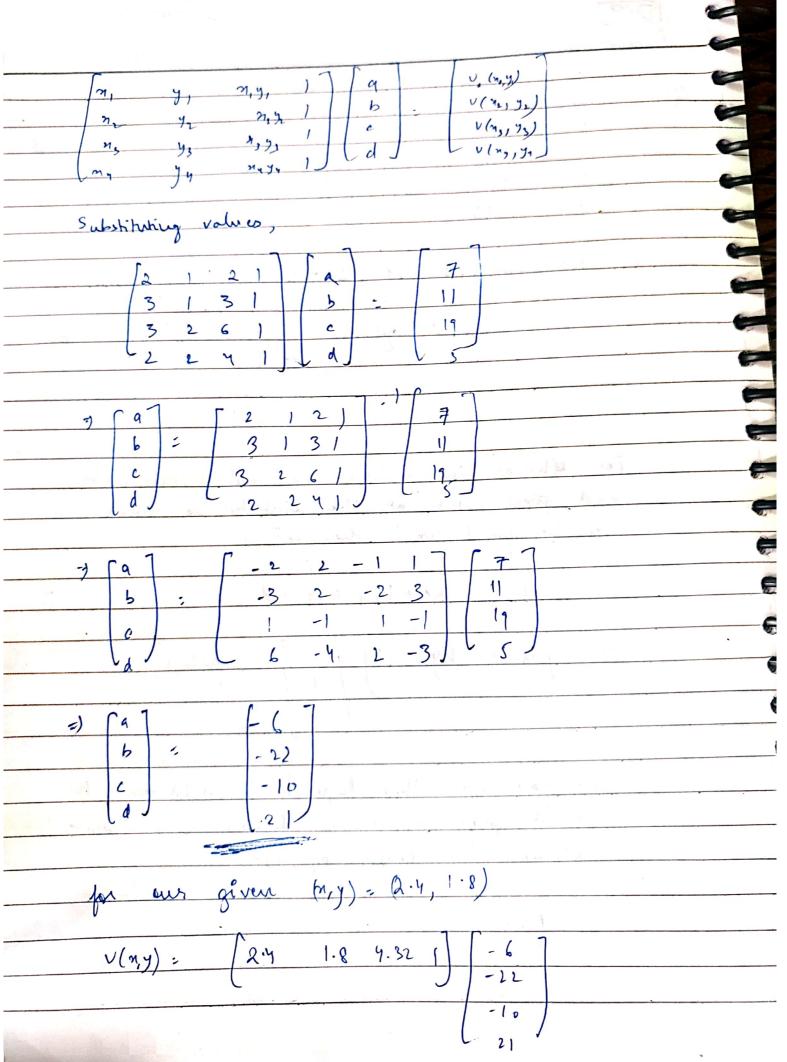
9/9/20 Assignment 2 91-O 13 17 10 12 13 -) (n,y) = (2. y, 1.8) Nearest 4 neighbours = . (2,1) • (3, 1) • (3, 2) 0(2,2) bilinear interpolation, me need 4 neighbours and pixel value at the point to be interpolated can be found using the eq = -V(x,y) = ax + by + cny + d We can entend this logic to 4 neighbours for which pinel values are known and hence calculate the coffs. a, b, a, d P: 1. 0.



Scanned with CamScanner

V(M, 1): 10.2 i.e. pixel value at fry = f.4, 1.8) is (10.2). Depending on application we can also send off this value to the nearest integer value (i.e. 10) (I have applying all these operations to cameraman image only, as interested by Sir in the Here, my scaling matrin =

| 2 0 0 | 0 27 0 | 0 0 1 | i.e. it scales image by 2 times on the namis and 2 times on the =) if my image has dimensioned 256 x 256, my output image will have dimensions 512 x 512 (inverse mapping with bilinear (akryototion) Parts b) e) d) have been applied to the comeraman image straightaway, with comments put up to emplain the code step by chap. (Move to the mattab code).

