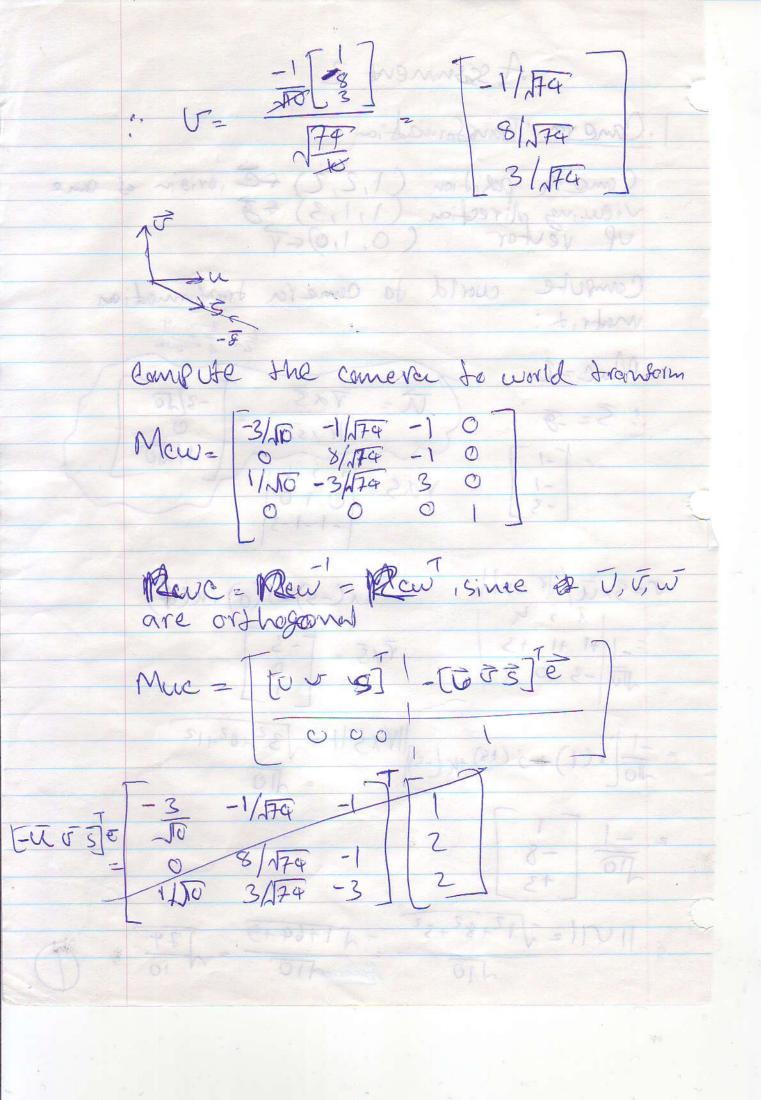
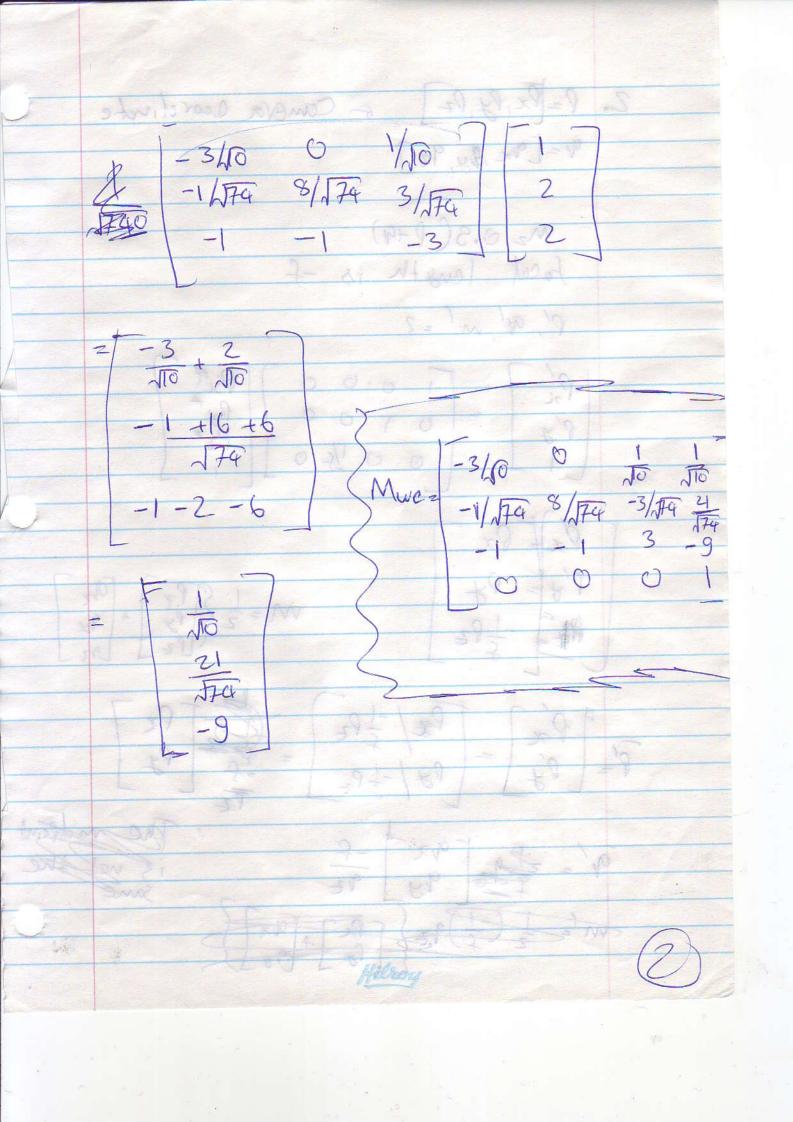
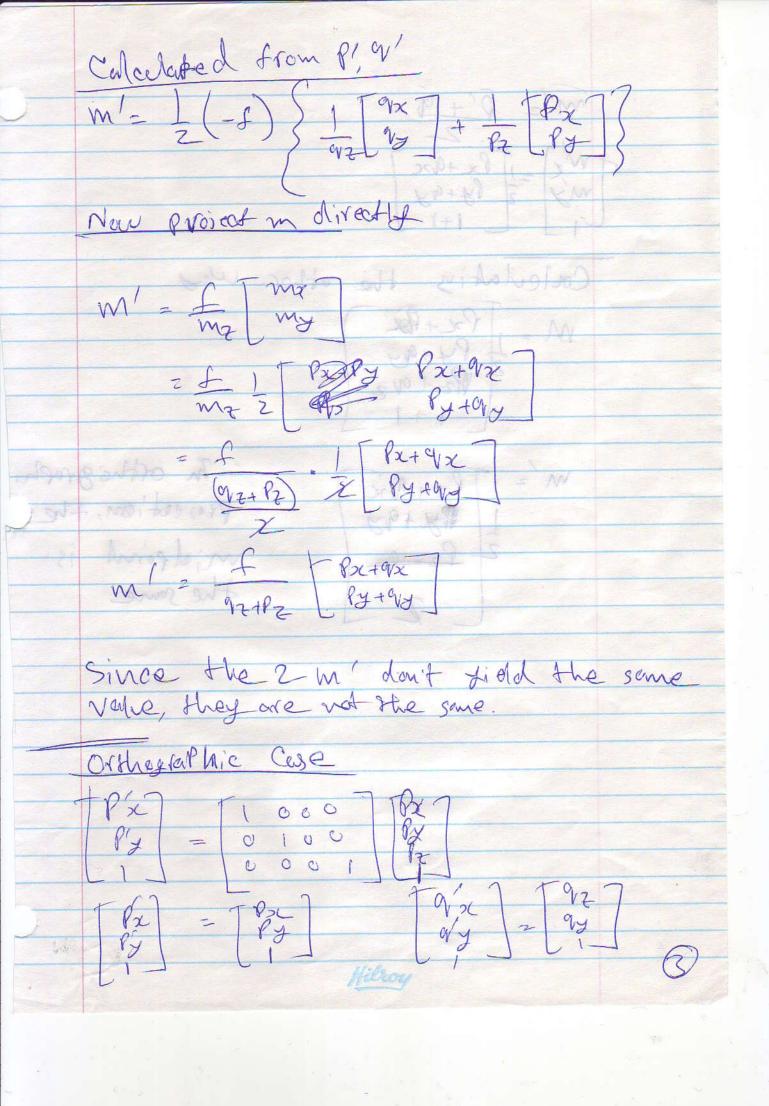
Assument 2 · Come you Transforment ion Como va position (1,2,2) & in of some viewing direction (1,1,3) & it up vertor (0,1,0) & v Compute world to come ran trustormention metrit: 2 2 2 2 Mwc=? N= VX3 -3/50 1. Sz. g 1/10 -1-1-3 $\nabla = \frac{5}{4} \times \frac{1}{1} \times \frac{1}{1} = \frac{1}{1} (-3) - \frac{1}{1} (0) + K(0)$ = -1 + 1 + 1 + 3 = -3 0 1 = -3 0 1= -1 (1) + i (+8) + K (-3) | V 15 | 1 = \ 32 + 02 + 12 2 /10 7170 3/24 -11V11= 12+82+32 - 17+64+9



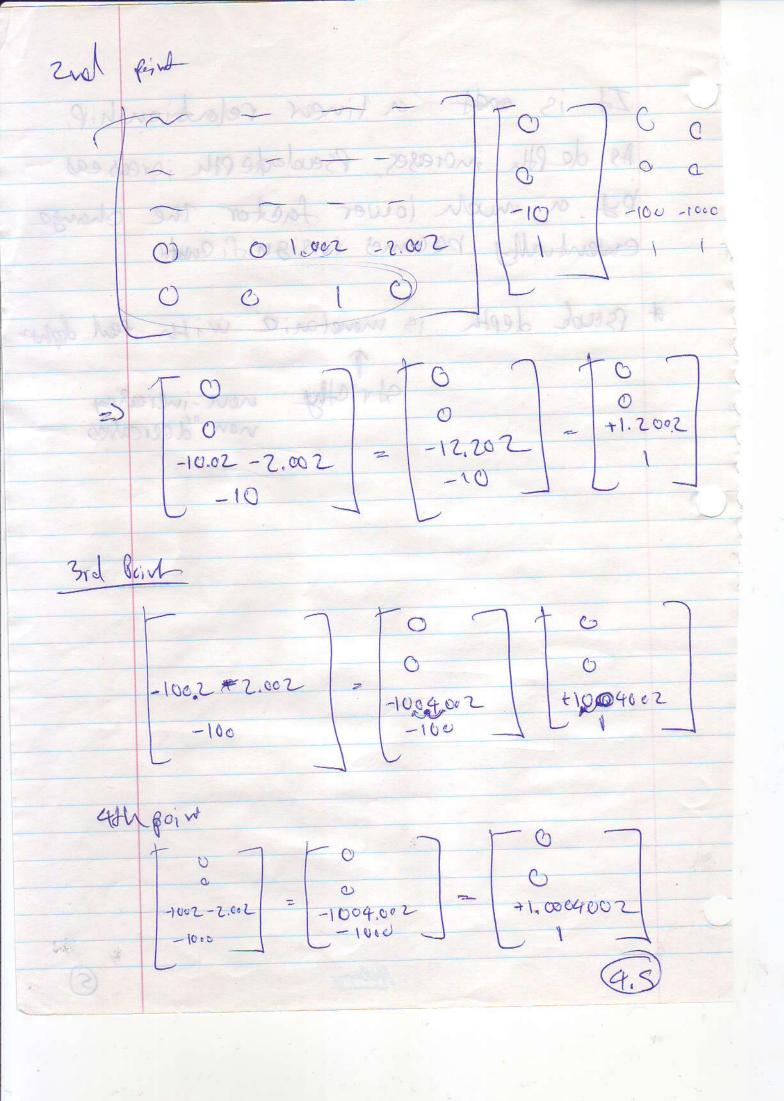


2. P=Px,Py,Pz & Comera coordinate 9=[9x, 8y, 92] Wz 0,8(P+9) focal length is -f p', q', m = ? 001/80 PxtPx P'= Px = Px | -1 Px | -2 Px | -1 Px | m = 2 (1) 92 (Px) 1 (Px)



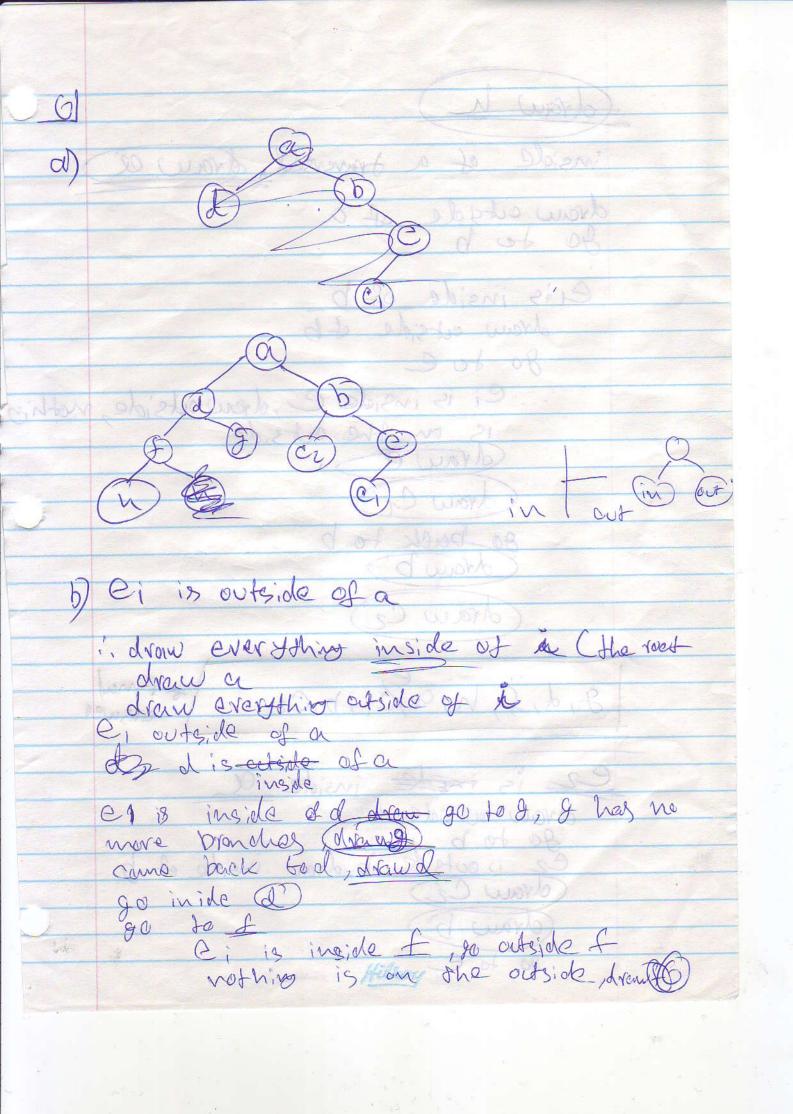
Colodaped from Plan m/2 pr + 9 Twing = TPx+axc m'y = z By+ay 1+1 Calculating the other ward in orthographi prosection, the midpoint is The seme SINCE THE S-W don't state the

31 liz that 4 udse Pry + udy P1Z+uoz Doing the parspective projection li(u) = f Pizc+volsc Piz+volz Piz+voly 1/2(4) = Frz+udz Prz+udz The intersection point is the Rross product of 1, 912 Let X be the intersection K= ZIX Tz Pix + ndx Pix+noly (P. 2+udz) (Pzz +udz) Pzc+uda Pzy+udy Pixtury-Py-Vdy -Pix tudis - Protog (P12 + 4nd 2) (P2 2+ndz) Ructuda (Prytudy)



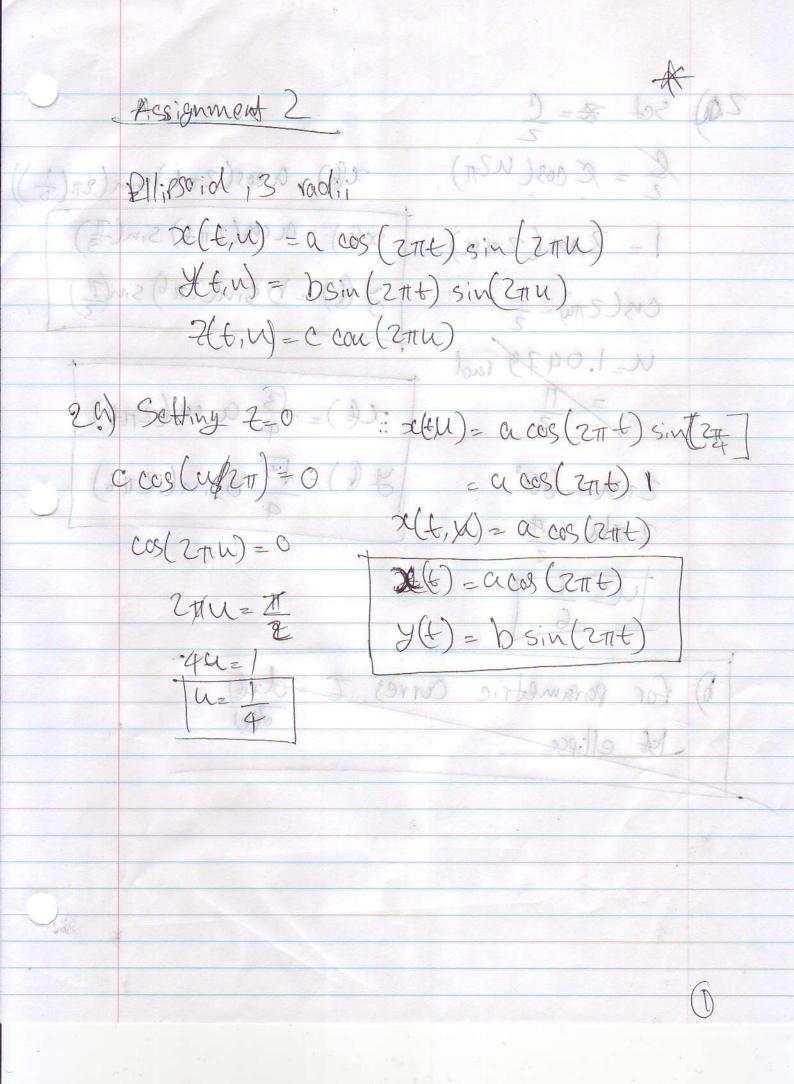
Pix-Pzx -Pix +Pzx (Piz+udz) (Pzz+udz) (Postudo) (Pzytudy) - (Pzztudz) (Bytudy) 404 41 -1.002-2.002 t.P

It is and on linear relationship As de Pth increases, Pseudophe Pth ; crows eas by a much lower factor. The change ententually becomes insignificants of pseude depth is menetaria with red down strictly non-increasing non-decreases 1 m T - 50.01-Now box 500 59 1801 + Water



draw h inside of a traversed, draw of draw outside of a to to b Cris inside of b drew outside of b So to e Ci is inside e, drew outside, nothis is on the outside (drow C1) so back to b draw b draw (2) & Final 9, d, f, h, a, c, b, cz answes er is frage inside a draw outside a go to b Ez is outside bidrow inside of b draw Ci (draw b) 90 to €

Czis outside of Company drow inside of e (drow C) / 2 Med = (V) DK drawe Dil 100 so back to b go back to a draw inside a go to d ez is outside of al drow inside d go to f les isside of f draw outsided draw & drau h (drand) draw g & Final enswer. C2,6, C1, C, a, f, h, d, g



tos grunged 2. Set 7 = C £ = £ cos(112/1) 26) = acos (2nt) sin (en(f)) x(e) = a cos(2+++) sin(=) = 2 cos (2TIN) Uz 1.0475 rad X(t)= 3 a cos(271+) J()= 13 bsin(2716) for parametric curres, I let ellipse

ellipse
$$C = 20$$
 $2 \cdot (6) = 0$
 $2 \cdot (6) = 0$

Find normal

 $2 \cdot (6) = 0$
 $2 \cdot (6) = 0$

The normal is

 $2 \cdot (6) = 0$

The normal is

 $2 \cdot (6) = 0$

The normal is

 $2 \cdot (6) = 0$

