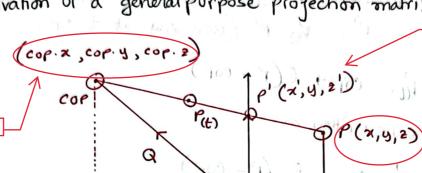


Projection point



Origin point

$$-(z-2xis) = -(z-2xis) = -(z-2xis) = -(z-2xis) = -(z-2xis) = 0$$
project

& Representing the line that goes from the bottom of the projection plane to the COP DE a vector Q. It to go =

We can say,

COP point

& Suppose (P to COP, a ronametric line)

-> then Per is any point on the line.

can be written the other way around as well.

(ii)

(can be written as
$$P' = cop + p(P - cop)$$
The value of the first of the point of t

a = cop.x + tp (x - cop.x)

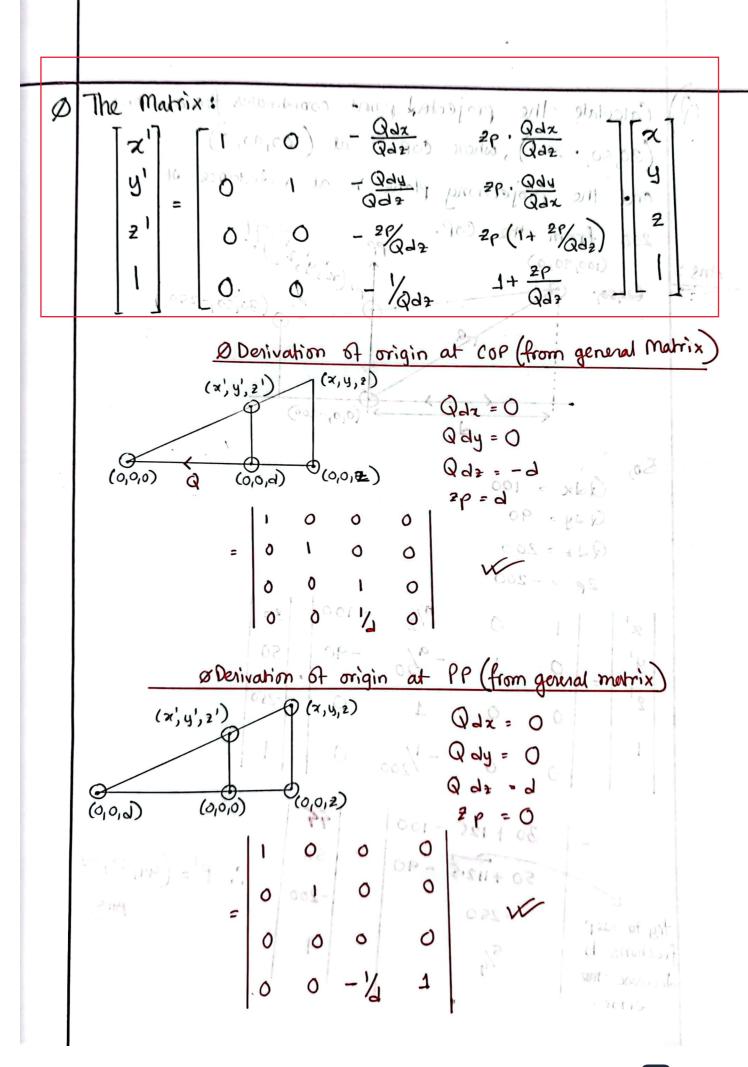
We Know, cop. x = Qdx

8 We'll be getting an eqn for tp from 2' and substitute it in 2' & y'

Por 19 1 1 (1009 - 10) - 10 10

projection plane, it equals 2p. = -Qd2 - 2P + 1 + below x - 2. Odr + 28. Odr } 2003 + 1 + 25/002 (MIO) = + 500, 6 - 6 24 (-1/2012) (m) = - 3 (11 27 891) 35 + 11 (12 1891) -- 660/12 11165

a substituting eqn (v), to in all of eqn (iv) $\alpha'_{1} = Q_{dx} + \left(\frac{1}{-\frac{2}{Q_{d2}} + 1 + \frac{2p}{Q_{d2}}}\right) (\pi - Q_{dx})$ $= \frac{Qdx}{1} + \left(\frac{x - Qdx}{-\frac{2}{2}}\right)$ $= \frac{7}{\sqrt{2}} \frac{2}{\sqrt{2}} \cdot \frac{2}{\sqrt{2}} + \frac{2$ 2 - 2, Qdz + 2p, Qdx Qdz } -2/QJ2 + 1 + 2P/QJ2] $y' = \frac{y - 2 \cdot Qdy}{-2 \cdot Qdz} + \frac{2p \cdot Qdy}{Qdz}$ \\ \frac{2p}{Qdz} \right\} \\ \text{Keeping} denominator same, so mat $= 2\rho \left(\frac{-\frac{2}{Qd_2} + 1 + \frac{2p}{Qd_2}}{-\frac{2}{Qd_2} + 1 + \frac{2p}{Qd_2}} \right)$ it is easier to = -2. 2p (1+ 2p (1+ 2p ddz) (iii) -2/Qd2+1+2P/Qd2



Calculate the projected point coordinates for a point (30,50,-250), where cop is at (100,90,0) and the projections plane is at a distance of 200 from the Cop. Q 2y = 90 Q12 = 200 try to keep fractions to decrease the error.