

## Scanned with CamScanner

Projection Matrix in orthographic projection:

$$(x,y,z) \xrightarrow{\text{Project}} \text{ on } xy \xrightarrow{\text{plane}} (x,y,-12) \xrightarrow{\text{o}} (x,y,-12$$

.

PP = plane projection.

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\* Given cop(50,40,100) and pp(0,0,-200) find out the projected point for the given input (30,50, -250)? dx = 50 - 0 = 50 dy = 40-0 = 40 de = 100 -(-200) = 300  $\begin{cases} x' \\ y' \\ 2' \\ 1 \end{cases} = \begin{cases} 1 & 0 & -50/300 \\ 0 & 1 & -40/300 \\ 0 & 0 & -\frac{(-200)}{300} \\ 0 & 0 & -\frac{1}{300} \end{cases}$ so normalize it by dividing each data by 1.167 or what the value is. Important for Exam xy plane Cose 1 Find out the matrix where cop is at origin and pp is not at input points 1 distance from cop. COP (0,0,0) Pp(0,0,d) dx = 0-0=0 dz = 0-d=-d

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