Using Similar tribugles Approach. we get? $X = X \cdot (focallength)$ $y! = Y \cdot (focallength)$ (-Z)o. Here I have added -ve(Z) Co-valinate because Z is negative on the direction of projection of points To Calculate focal length :field of view or angle of View = 90°, ongle for the entire Screen, so lue have table (0/2) angle, i.e is 45°, 2. By Using tamo, we can say tan (0) = Per Pendièles = (Screen Size /2)
Base focal lengtot a. tam 45°=1 (Sounsize/2) = focal length

a. Scrensize = 2

is So Focallength = 2/2=1

Now, we will substitute focal length =1
equiff will become

 $X' = X \qquad y' = Y \qquad (-2)$

in jist

Now we will esse this formulae to Calculate the formulae to Calculate Phe formulae to Calculate Projection. Thankyou!