

$$e = d + p_y \quad (2)$$

$$\textcircled{1} \Rightarrow z' = \frac{\sin p}{\cos p} \left(\frac{z}{\sin p} + p_y \right) \Rightarrow z' = \frac{z}{\cos p} + p_y \cdot \tan p$$

$$\sin p = \frac{z}{d} \Rightarrow d = \frac{z}{\sin p}$$

$$e' = d - p_j'$$

$$\tan p = \frac{z''}{e'} \Rightarrow z'' = e' \tan p \Rightarrow z' = (d - p_j) \tan p \Rightarrow z' = \left(\frac{z}{\sin p} - p_j \right) \tan p$$

$$\Rightarrow z' = \frac{z}{\cos p} - p_j' \tan p \quad (OK)$$

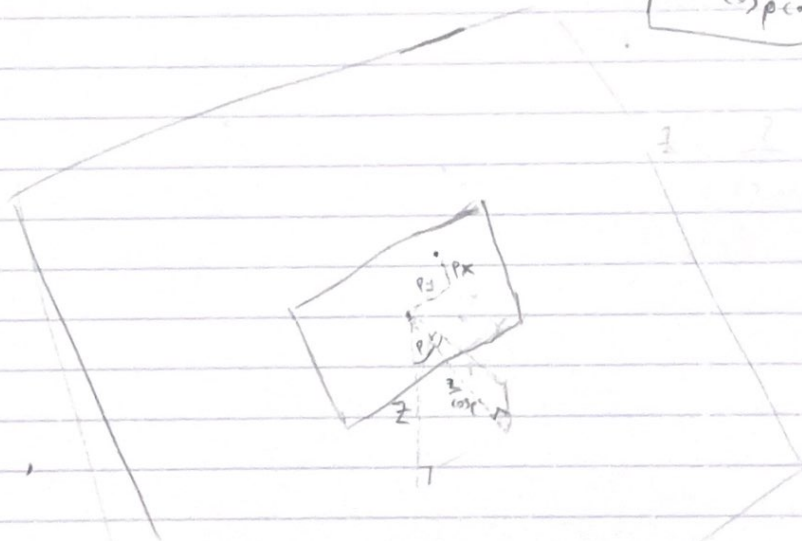
Karagiannis' estimation works for the center pixel i.e. for $p_y = 0$



$$\cos \theta = \frac{z}{|z|} \Rightarrow$$

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$$\Rightarrow z = \frac{z}{\cos \theta} \quad \text{normalization}$$



Για την ώρα α) πάλι έτσι το legit είναι

$$z' = \frac{z}{\cos \theta} + p_y \tan \theta + p_x \tan \theta$$

χωρίς να είναι σφαιρικό ακόμα.