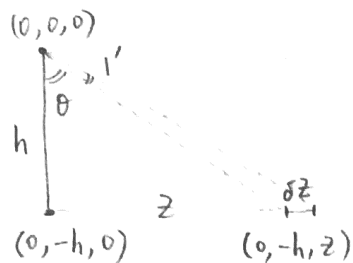


3)



We have the following relations:

$$\left. \begin{aligned} \tan \theta &= \frac{z}{h} \\ \tan(\theta + 1') &= \frac{z + \delta z}{h} \end{aligned} \right\} \Rightarrow \theta = \arctan\left(\frac{z}{h}\right)$$

$$\Rightarrow \frac{z + \delta z}{h} = \tan\left(\arctan\left(\frac{z}{h}\right) + 1'\right)$$

$$\Rightarrow \delta z = h \tan\left(\arctan\left(\frac{z}{h}\right) + 1'\right) - z$$

smaller z , smaller δz , higher depth accuracy