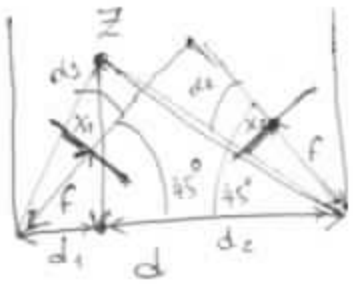
ΑΣΚ. 5



Έχουμε από την γεωμετρία του προβλήματος.

$$\left.\begin{aligned}\frac{Z}{d_1} &= \tan(45^\circ+\alpha_1)\\ \frac{Z}{d_2} &= \tan(45^\circ-\alpha_2)\end{aligned}\right\} \xrightarrow{d_1+d_2=d} Z = d\,\frac{\tan(45+\alpha_1)\tan(45-\alpha_2)}{\tan(45+\alpha_1)+\tan(45-\alpha_2)}$$

άρα $\tan\alpha_1 = \dfrac{x_1}{f}$

$\tan\alpha_2 = \dfrac{x_2}{f}$