



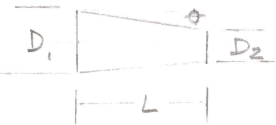
Subject: Watchmaker's Compass

Date: VIII / 2017

Notes:

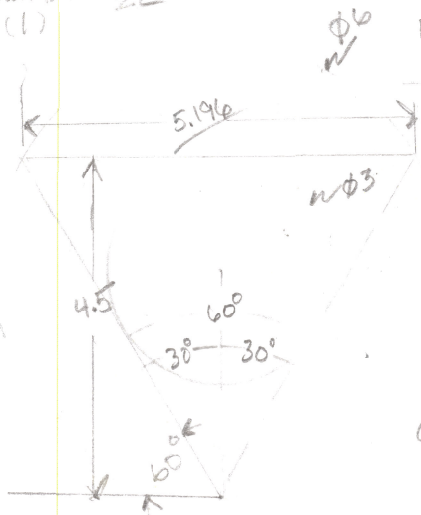
Calculations

$$\tan \theta = \frac{D_1 - D_2}{2L}$$



$$\tan 45^\circ = \frac{4.89 - 2}{2L}$$

(1)



$$\frac{40}{30} = \frac{20}{15}$$

$$\frac{OD}{2} = \frac{\sqrt{3}}{3} \text{ width}$$

$$W = 5.196 \text{ mm}$$

$$H = \frac{\sqrt{3}}{2} (5.196)$$

$$H = 4.5 \text{ mm}$$

$$\gamma = \frac{W}{H} = \frac{4}{0.5774}$$

