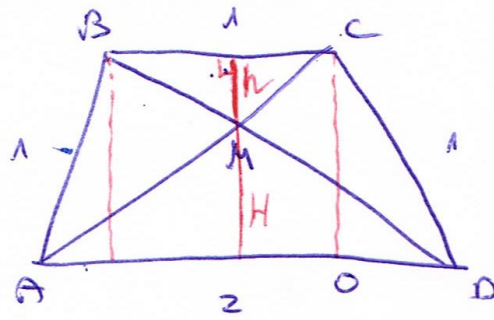


$$\frac{3.42}{4}$$



$$OD = \frac{1}{2} \rightarrow CO = \sqrt{1 - \left(\frac{1}{2}\right)^2} = \frac{\sqrt{3}}{2}$$

$$S_{ACD} = \frac{\frac{\sqrt{3}}{2} \cdot 2}{2} = \frac{\sqrt{3}}{2}$$

(S.S)  $\triangle BMC \sim \triangle AMD$

$$\frac{1}{2} = \frac{h}{H}$$

$$\frac{\sqrt{3}}{2} = CO = h + H = 3h \rightarrow h = \frac{\sqrt{3}}{6} \quad H = \frac{\sqrt{3}}{3}$$

$$S_{AMD} = \frac{H \cdot AD}{2} = \frac{\frac{\sqrt{3}}{3} \cdot 2}{2} = \frac{\sqrt{3}}{3}$$

$$S_{CMD} = S_{ACD} - S_{AMD} = \frac{\sqrt{3}}{2} - \frac{\sqrt{3}}{3} = \frac{\sqrt{3}}{6}$$

$$AC = \sqrt{CO^2 + AO^2} = \sqrt{\left(\frac{\sqrt{3}}{2}\right)^2 + \left(\frac{3}{2}\right)^2} = \sqrt{3}$$

$$S_{ABC} = \frac{CO \cdot BC}{2} = \frac{\frac{\sqrt{3}}{2} \cdot 1}{2} = \frac{\sqrt{3}}{4}$$

$$S_{ABCD} = S_{ABC} + S_{ACD} = \frac{\sqrt{3}}{4} + \frac{\sqrt{3}}{2} = \frac{3\sqrt{3}}{4}$$

$$S_{ABCD} = \frac{AC \cdot BD \cdot \sin \angle CMD}{2}$$

$$\frac{3\sqrt{3}}{4} = \frac{(\sqrt{3})^2 \sin \angle CMD}{2} \rightarrow \sin \angle CMD = \frac{\sqrt{3}}{2}$$

$$\boxed{\angle CMD = 60^\circ}$$