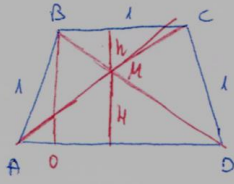


3.26  
5



$$AO = \frac{AD - BC}{2} = \frac{1}{2}$$

$$BO = \frac{\sqrt{3}}{2}$$

(S.S)  $\triangle AHD \sim \triangle CHB$

$$\frac{h}{H} = \frac{1}{2} \rightarrow H = 2h \rightarrow h + 2h = \frac{\sqrt{3}}{2}$$

$$h = \frac{\sqrt{3}}{6}$$

$$S_{\triangle BCK} = \frac{h \cdot BC}{2} = \frac{\frac{\sqrt{3}}{6} \cdot 1}{2} = \frac{\sqrt{3}}{12}$$

$$S_{\triangle AHD} = \frac{H \cdot AD}{2} = \frac{2\sqrt{3} \cdot 2}{6 \cdot 2} = \frac{\sqrt{3}}{3}$$

$$AC = BD = \sqrt{OD^2 + OB^2} = \sqrt{\left(\frac{3}{2}\right)^2 + \frac{3}{2}} = \sqrt{\frac{9}{4} + \frac{3}{2}} = \sqrt{\frac{15}{2}} = \sqrt{3}$$

$$MC = \frac{1}{3}\sqrt{3}$$

$$AM = \frac{2}{3}AC = \frac{2\sqrt{3}}{3}$$

∠KCD პროექტირება

$$CD^2 = KC^2 + KD^2 - 2KC \cdot KD \cdot \cos \angle KCD$$

$$1 = \frac{1}{3} + \frac{4}{3} - 2 \cdot \frac{\sqrt{3}}{3} \cdot \frac{2\sqrt{3}}{3} \cos \angle KCD$$

$$\cos \angle KCD = \frac{\frac{2}{3}}{\frac{4}{3}} = \frac{1}{2} \rightarrow \angle KCD = 60^\circ$$