



$$\overline{ca} = l$$

$$\overline{BM} = \sqrt{l^2 + \frac{1}{4}l^2} = \frac{\sqrt{5}}{2}l$$

$$\overline{BE} = \sqrt{2}l$$

$$\overline{EM} = \sqrt{(\sqrt{2})^2 + \left(\frac{1}{2}\right)^2} =$$

$$= \frac{3}{2}l$$

$$\frac{9}{4}l^2 = 2l^2 + \frac{5}{4}l^2 - \frac{\sqrt{2}\sqrt{5}}{2\sqrt{2}}l^2 \cos x$$

$$\cos x = \frac{1}{\sqrt{10}} \quad x = \arccos \frac{1}{\sqrt{10}}$$