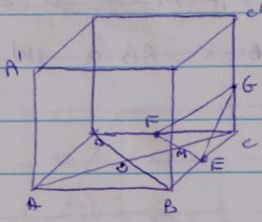
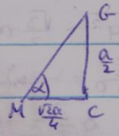


3.21
7

(k)



$$MC = \frac{1}{2}OC = \frac{1}{2} \cdot \frac{\sqrt{2}a}{2} = \frac{\sqrt{2}a}{4}$$



$$\tan \alpha = \frac{a}{\frac{\sqrt{2}a}{4}} = \frac{4}{\sqrt{2}} = 2\sqrt{2}$$

$$1 + \tan^2 \alpha = \frac{1}{\cos^2 \alpha} \rightarrow \cos \alpha = \frac{1}{\sqrt{1 + \tan^2 \alpha}} = \frac{1}{\sqrt{1 + 8}} = \frac{1}{3}$$

↓
צד השני

(p)

לפי משפטים 3.5.1 ו-3.5.2 $\triangle EFG$

$$(3.5.3) \triangle A'C'G \cong \triangle A'BE \cong \triangle A'DF \Rightarrow A'F = A'G = A'E$$

∴ $\triangle A'EF$ הוא משולש שווה צדדים ←