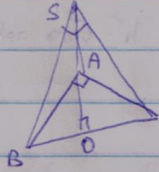


3.6
8



הצגה

$$BC = \sqrt{a^2 + a^2} = \sqrt{2}a$$

$$(3.5.3) \triangle SABO \cong \triangle SBO$$

$$(3.3.3) \triangle SAB \cong \triangle SAC$$

$$BC^2 = BS^2 + CS^2 \rightarrow 2a^2 = 2BS^2 \rightarrow BS = CS = a$$

$\triangle BSC$

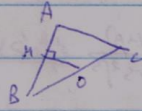
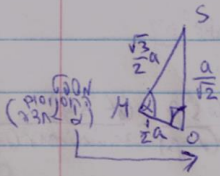
$$SO = \sqrt{BS^2 - BO^2} = \sqrt{a^2 - \frac{2a^2}{4}} = \frac{a}{\sqrt{2}}$$

$\triangle BSO$

$$SA = \sqrt{AO^2 + SO^2} = a$$

$\triangle SAO$

הצגה נוספת של הנתון: $\triangle SCA$, $\triangle SBA$



O מ' AC = 1/2 AC = 1/2 a

הנקודה M היא נקודת האמצע של AB, $OM = \frac{1}{2} AC = \frac{1}{2} a$

$SM = \frac{\sqrt{2}}{2} a$ (ה' ה' ה') (ה' ה' ה' ה') $\triangle SBA$

$$\frac{a^2}{2} = \frac{a^2}{4} + \frac{a^2}{4} - 2 \cdot \frac{\sqrt{2}}{4} a \cdot \frac{a}{2} \cos \alpha \rightarrow \cos \alpha = \frac{1}{\sqrt{2}} \rightarrow 1 + \tan^2 \alpha = \frac{1}{\cos^2 \alpha} \rightarrow \tan \alpha = \sqrt{2}$$

mead