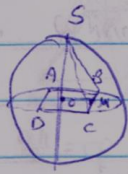


Prismen Pyramide

3.3
G

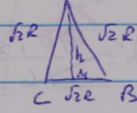


$SA = SB = SC = SD$ $\sqrt{R^2 + R^2}$ $\sqrt{2}R$

$AC = 2R \rightarrow AB = \sqrt{OB^2 + AO^2} = \sqrt{2}R$

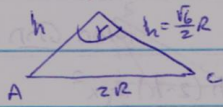
$SA = \sqrt{SO^2 + AO^2} = \sqrt{2}R$

$\tan \alpha = \frac{SO}{AO} = \frac{R}{R} = 1 \rightarrow \alpha = \frac{\pi}{4}$



$h = \frac{\sqrt{2}}{2} \cdot \sqrt{2}R = \frac{\sqrt{6}R}{2} \rightarrow \tan \beta = \frac{SO}{h} = \frac{R}{\frac{\sqrt{6}R}{2}} = \sqrt{2}$

$\cos \beta = \frac{\frac{\sqrt{2}R}{2}}{\frac{\sqrt{6}R}{2}} = \frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3}$



$4R^2 = \frac{6}{4}R^2 + \frac{6}{4}R^2 - 2 \cdot \frac{6}{4}R^2 \cos \gamma$

$\cos \gamma = -\frac{1}{3}$