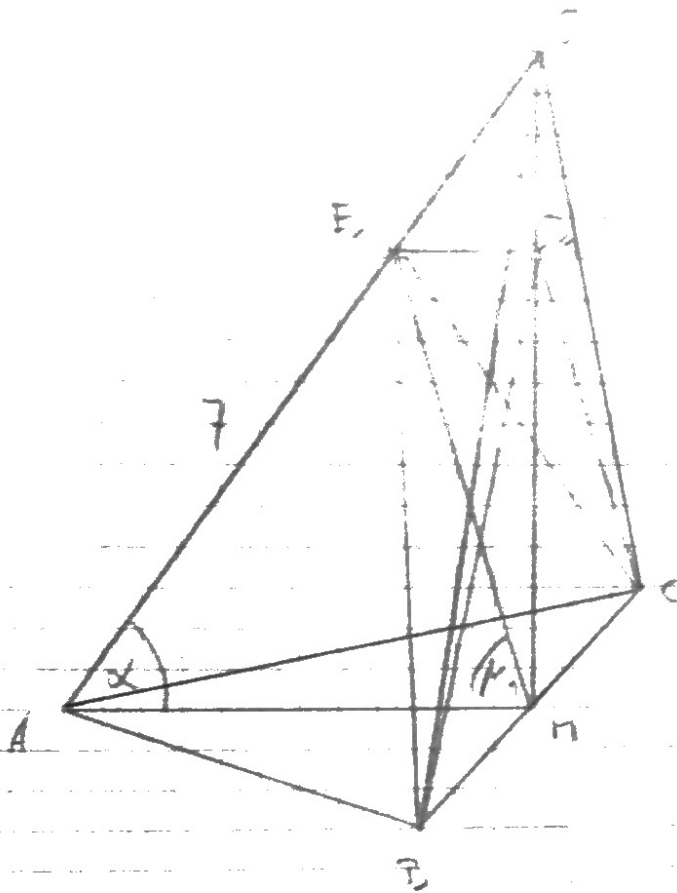


5.13.17

a)



b)  $\cos \alpha = \frac{8}{6} \Rightarrow \alpha = 53,1^\circ$

$AS = \sqrt{6^2 + 8^2} \text{ cm} = 10 \text{ cm}$

d)  $\overline{EM}^2 = (7^2 + 6^2 - 2 \cdot 7 \cdot 6 \cdot \cos 53,1^\circ) \text{ cm}^2$

$\overline{EM} = 5,88 \text{ cm}; \frac{5,88}{\sin 53,1^\circ} = \frac{7}{\sin \mu} \Rightarrow \sin \mu = \frac{7 \cdot \sin 53,1^\circ}{5,88}$

$\Rightarrow \mu = 72,2^\circ$

e)  $\sin 53,1^\circ = \frac{\overline{SD}_1}{3} \Rightarrow \overline{SD}_1 = 3 \cdot \sin 53,1^\circ$

$\overline{SD}_1 = 2,4 \text{ cm}$

$\overline{TD}_1 = 8 \text{ cm} - 2,4 \text{ cm} = 5,6 \text{ cm}$

$\overline{ED}_1^2 = (3^2 - 2,4^2) \text{ cm}^2$

$\overline{ED}_1 = 1,8 \text{ cm}$

$V = \frac{1}{3} \cdot A_n \cdot h$

$= \frac{1}{3} \cdot \underbrace{\left( \frac{1}{2} \cdot 8 \cdot 5,6 \right)}_{A_n} \cdot \underbrace{1,8 \text{ cm}}_{\overline{ED}_1 = h} = 13,44 \text{ cm}^3$

$\overline{ED}_1 = h$