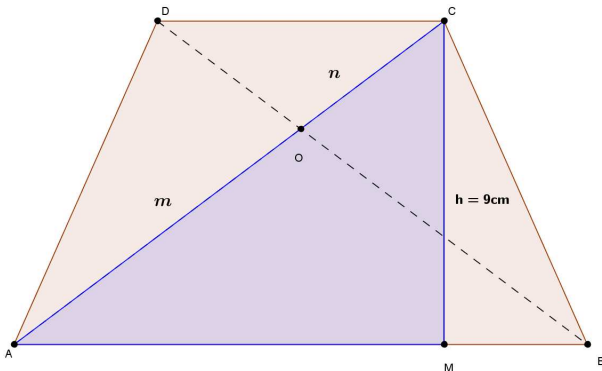


395. Osnova piramide je jednakokraki trapez sa osnovicama dužine 16cm i 8cm i visinom 9cm. Podnožje visine piramide je presek dijagonala osnove, a kraća bočna ivica je 13cm. Izračunati zapreminu piramide.



Ako posmatramo osnovu piramide i posebno trougao ACM :

$$AC^2 = AM^2 + CM^2$$

$$AC^2 = 12^2 + 9^2$$

$$AC = 15cm$$

Iz sličnosti trouglova AEO i CFO:

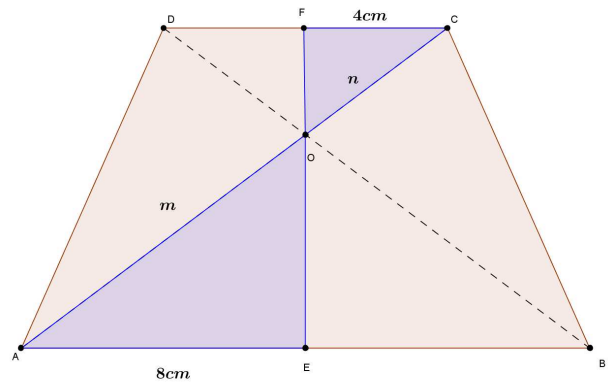
$$m : 8cm = n : 4cm$$

$$m = 2n$$

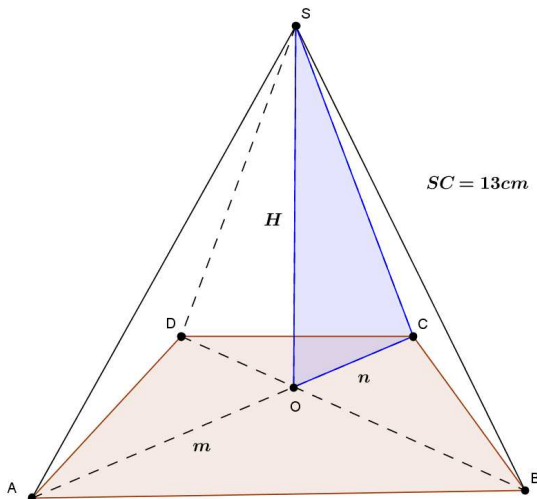
$$m + n = 15cm$$

$$m = 10cm$$

$$n = 5cm$$



Iz trougla SOC vidimo da je SC=13cm, a OC=5cm. Tada je SO=12cm.



$$V = \frac{B \cdot H}{3}$$

$$V = \frac{\frac{a+b}{2} \cdot h \cdot H}{3}$$

$$V = \frac{(a+b) \cdot h \cdot H}{6}$$

$$V = 432cm^3$$