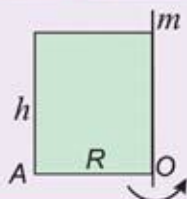
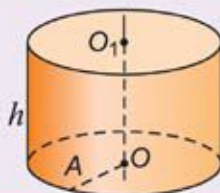


ОБЪЕМЫ КРУГЛЫХ ТЕЛ И ИХ ЧАСТЕЙ (V)

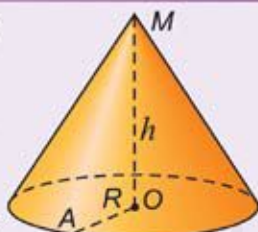
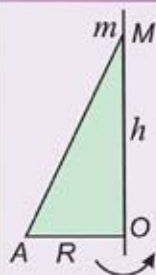
ЦИЛИНДР



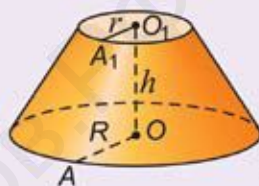
$$V_{\text{цил}} = \pi R^2 h$$



КОНУС



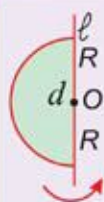
$$V_{\text{кон}} = \frac{1}{3} \pi R^2 h$$



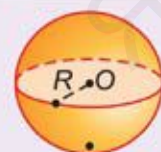
$$V_{\text{ус.кон}} = \frac{1}{3} \pi h (r^2 + rR + R^2)$$



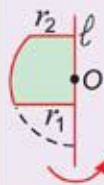
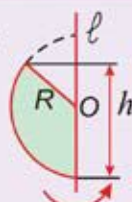
ШАР И ЕГО ЧАСТИ



$$V_{\text{шара}} = \frac{4}{3} \pi R^3 = \frac{1}{6} \pi d^3$$



$$V_{\text{сектора}} = \frac{2}{3} \pi R^2 \cdot h$$



$$V_{\text{слюя}} = \frac{\pi h}{6} (3r_1^2 + 3r_2^2 + h^2)$$



$$V_{\text{сегмента}} = \pi h^2 \left(R - \frac{h}{3} \right) = \frac{\pi h}{6} (3R^2 + h^2)$$