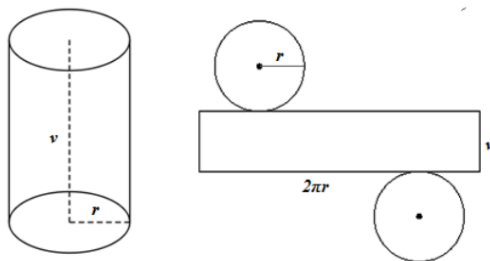


Objemy a povrchy rotačných telies

Valec

$$V = \pi r^2 v$$

$$S = 2\pi r(r + v)$$

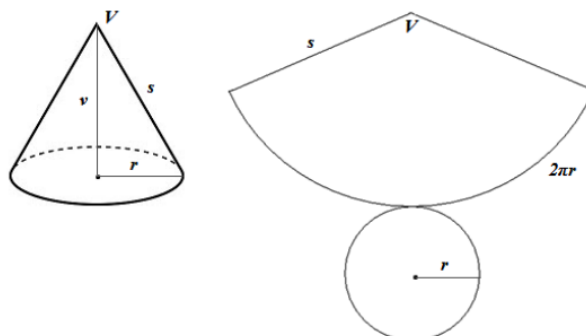


Kužel'

$$V = \frac{1}{3} \pi r^2 v$$

$$S = \pi r^2 + \pi r s$$

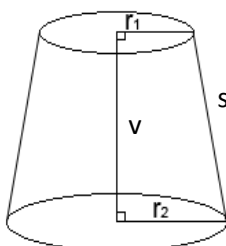
$$s = \sqrt{r^2 + v^2}$$



Zrezaný kužel'

$$V = \frac{1}{3} \pi v (r_1^2 + r_1 r_2 + r_2^2)$$

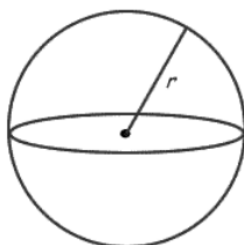
$$S = \pi r_1^2 + \pi r_2^2 + \pi (r_1 + r_2) s$$



Guľa

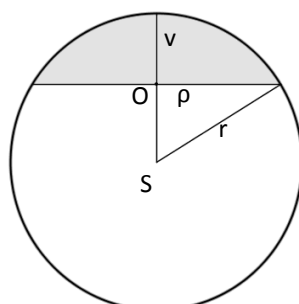
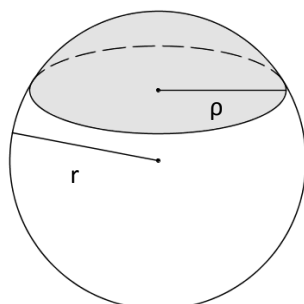
$$V = \frac{4}{3} \pi r^3$$

$$S = 4\pi r^2$$



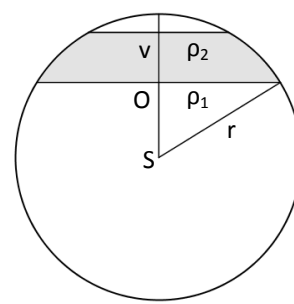
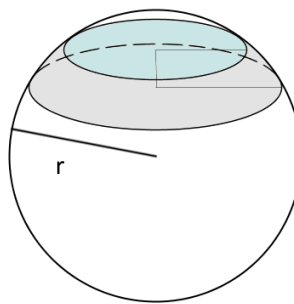
Guľový odsek

$$V = \frac{1}{6} \pi v (3\rho^2 + v^2)$$



Guľová vrstva

$$V = \frac{1}{6} \pi v (3\rho_1^2 + 3\rho_2^2 + v^2)$$



Obsah guľového vrchlíka a guľového pásu $S = 2\pi r v$