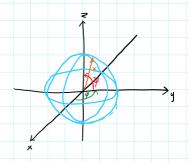
WSPÓŁRZĘDNE SFERYCZNE



$$v \neq 0$$

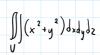
$$\varphi \in \langle 0; 2n \rangle$$

$$\Psi \in \langle -\frac{n}{2}; \frac{\pi}{2} \rangle$$

$$x^{2} + y^{2} + z^{2} = r^{2}$$

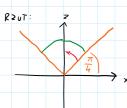
dxdydz > r2cosydpdrdy

PRZYKŁAD:



$$\frac{1}{1+y^2} \le \frac{1}{2} \le \sqrt{1-x^2-y^2}$$





$$\frac{1}{4} \leqslant \gamma \leqslant \frac{7}{2}$$

$$\iiint_{V} \left(x^{2} \cdot y^{2} \right) d_{v} d_{y} dz = \int_{0}^{2\pi} \int_{0}^{\pi} \int_{0}^{\pi} \int_{0}^{\pi} r^{2} \cos^{3} \psi r^{2} \cos^{3} \psi dy = \int_{0}^{2\pi} \left(\int_{0}^{\pi} \int_{0}^{\pi} \left(\int_{0}^{\pi} \int_{0}^{\pi} \left(\int_{0}^{\pi} \int_{0}^{\pi} \int_{0}^{\pi} \left(\int_{0}^{\pi} \int_{0$$

OBJETOSE BRYLY PRZEZ CALKE POTROJNA

PRZYKŁAD:

(63d) Obszar ograniczuny powierzchniami

$$x^{2}+y^{2}+z^{2}=2$$
 $y 7/1$

