11. gyakorlat

$$V = \iint_{X=0}^{2} y^{2} d(x,y) = \int_{X=0}^{2} \frac{y^{2}}{y^{3}} dy dx = \int_{X=0}^{2} \frac{64}{3} dx = \int_{0}^{2} \frac{64}{3} dx = \int_{0}^{2} \frac{12y}{3}$$

$$\int xy\sin(xy^2)dT = \int_{x=2}^4 \int_{x=6}^{y} xy\sin(xy^2)dydx =$$

$$= \int_{x=2}^4 \int_{x=6}^{y} xy\sin(xy^2)dydx =$$

$$= \left[\frac{-3ih(x\pi^2)}{2\pi^2} + \frac{x}{2}\right]_2^4 = \dots$$

$$\iint_{X} x^{2} dT = \iint_{X=-2}^{3} \int_{y=x^{2}}^{x+6} x^{2} dy dx = \iint_{X=-2}^{3} \left[x^{2}y\right]_{x^{2}}^{x+6} dx =$$

$$\int_{0}^{3} x^{3} + 6x^{2} - x^{4} dx =$$

$$\left[\frac{1}{4} + 24^3 - \frac{1}{5}\right]_{-2}^3 = -1$$

$$\begin{cases}
9 & = 6(9) \\
 & \neq 2 & d \neq 4
\end{cases}$$

$$\begin{cases}
4 = 0 & \neq 4(9)
\end{cases}$$