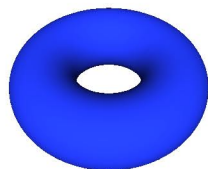


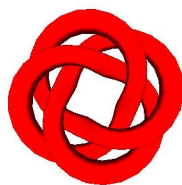
## PARAMETARSKI DEFINISANE POVRŠI U PROSTORU

Krenuvši od torusa kao parametarski definisane površi u prostoru, izmenom parametara, dolazi se do složenijih formi zasnovanih na početnom elementu i može se naslutiti geneza, tj proces razvoja prikazane površi.

Matematički precizno određena struktura je prikazana kao neka vrsta skulpture ili instalacije.

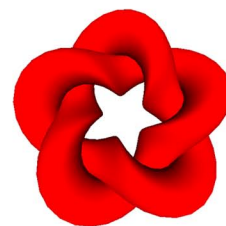


$$\begin{aligned}x &= (1 + 0.5 \cdot \cos(u)) \cdot \cos(v) \\y &= (1 + 0.5 \cdot \cos(u)) \cdot \sin(v) \\z &= 0.5 \cdot \sin(u) \\0 &\leq u \leq 2 \cdot \pi \\0 &\leq v \leq 2 \cdot \pi\end{aligned}$$



$$\begin{aligned}x &= (5 - \cos(u) + 4 \sin(4v)) \cos(3v) + 7 \\y &= (5 - \cos(u) + 4 \sin(4v)) \sin(3v) + 7 \\z &= 4 \cos(4v) + \sin(2 \sin(\sin(u))) + 7 \\0 &\leq u \leq 2 \cdot \pi \\0 &\leq v \leq 2 \cdot \pi\end{aligned}$$

$$\begin{aligned}x &= (3 - \cos(u) + \sin(5 \cdot v)) \cdot \cos(2 \cdot v) + 6 \\y &= (3 - \cos(u) + \sin(5 \cdot v)) \cdot \sin(2 \cdot v) + 6 \\z &= \cos(5 \cdot v) + \sin(u) + 6 \\0 &\leq u \leq 2 \cdot \pi \\0 &\leq v \leq 2 \cdot \pi\end{aligned}$$



$$\begin{aligned}x &= (5 - \cos(u) + \sin(2 \sin(\sin(11v)))) \cos(3v) + 3 \\y &= (5 - \cos(u) + \sin(2 \sin(\sin(11v)))) \sin(3v) + 3 \\z &= \cos(11v) + \sin(2 \sin(\sin(u))) + 3 \\0 &\leq u \leq 2 \cdot \pi \\0 &\leq v \leq 2 \cdot \pi\end{aligned}$$



Softver: K3DSurf, Adobe Photoshop, Inkscape