

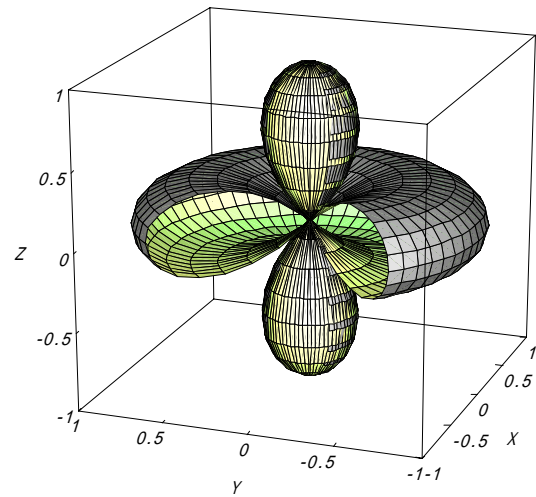
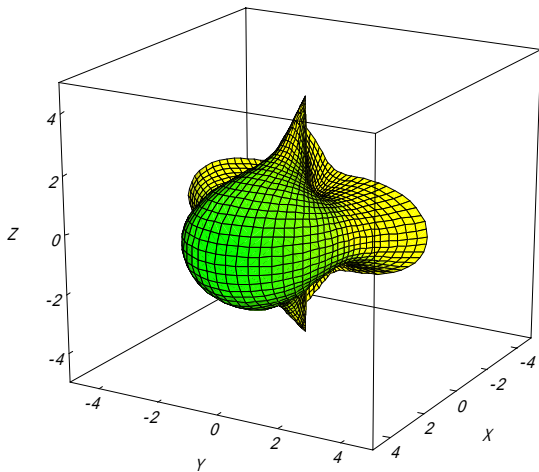
< 関数グラフ (3次元) >

$$R3(u) = \cos 2u$$

$$x(t, u) = R3(u) \cos t \cos u$$

$$y(t, u) = R3(u) \sin t \cos u$$

$$z(t, u) = R3(u) \sin u$$

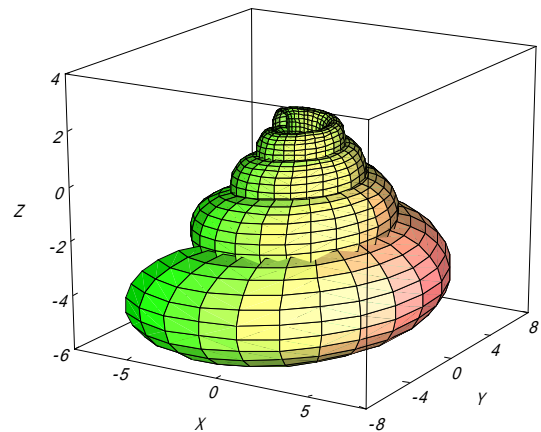


$$R22(t, u) = 3 + \cos(3t) + \cos(3u)$$

$$x(t, u) = R22(t, u) \cos t \cos u$$

$$y(t, u) = R22(t, u) \sin t \cos u$$

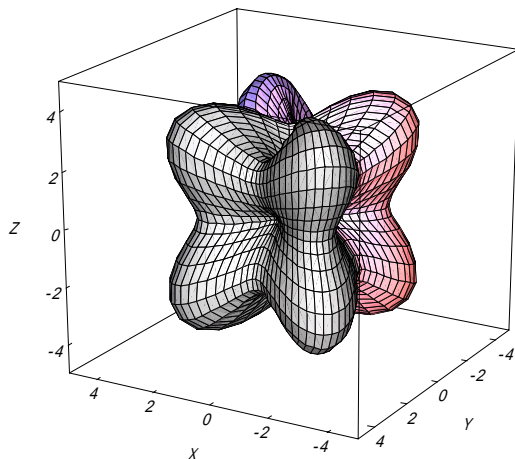
$$z(t, u) = R22(t, u) \sin u$$



$$x(t, u) = e^{-0.05t} (2 + e^{-0.05t} \cos u) * \cos t$$

$$y(t, u) = e^{-0.05t} (2 + e^{-0.05t} \cos u) * \sin t$$

$$z(t, u) = 0.1t + e^{-0.05t} (0.1t + \sin u)$$



$$R24(t, u) = 3 - \cos 4t - \cos 4u$$

$$x(t, u) = R24(t, u) \cos t \cos u$$

$$y(t, u) = R24(t, u) \sin t \cos u$$

$$z(t, u) = R24(t, u) \sin u$$