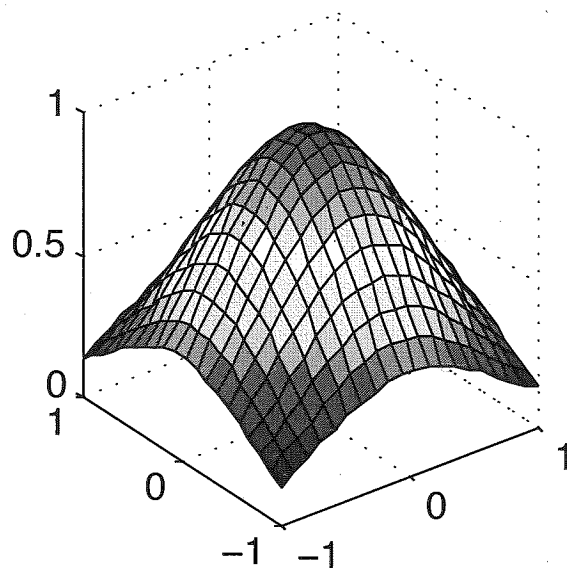


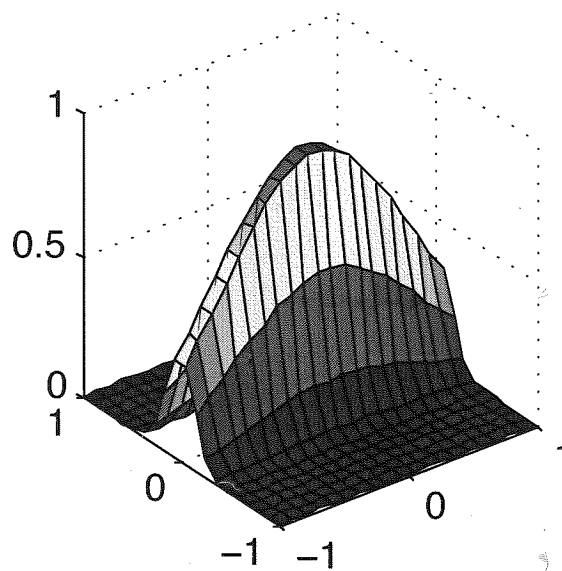
Plot $\varphi(\| \cdot - (0,0) \|)$ on $[-1,1] \times [-1,1]$

$$\varphi(t) = e^{-t^2}$$

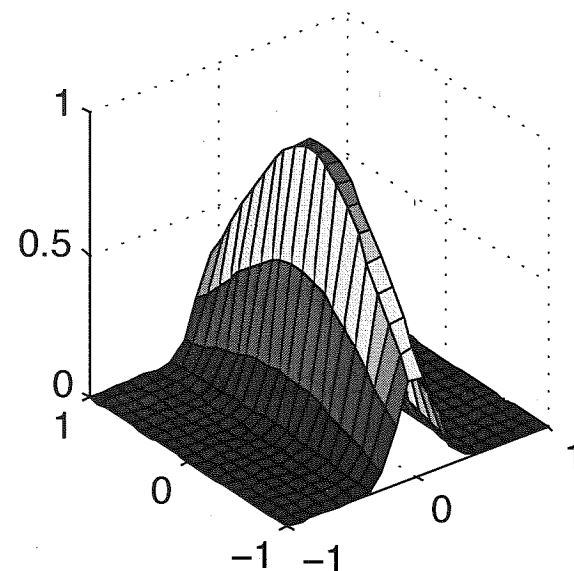
$$\| (x_1, x_2) - (y_1, y_2) \| = \sqrt{|\theta_1|(x_1 - y_1)^2 + |\theta_2|(x_2 - y_2)^2}$$



$$\theta_1 = 1, \theta_2 = 1$$



$$\theta_1 = 1, \theta_2 = 25$$

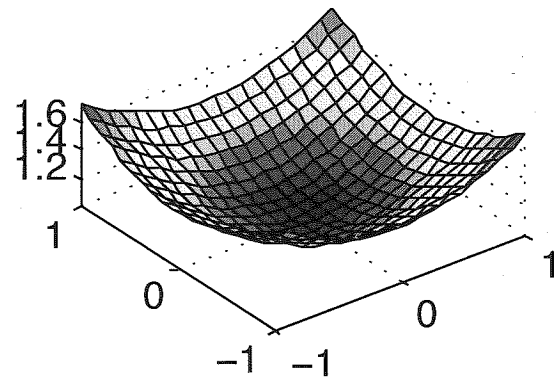


$$\theta_1 = 25, \theta_2 = 1$$

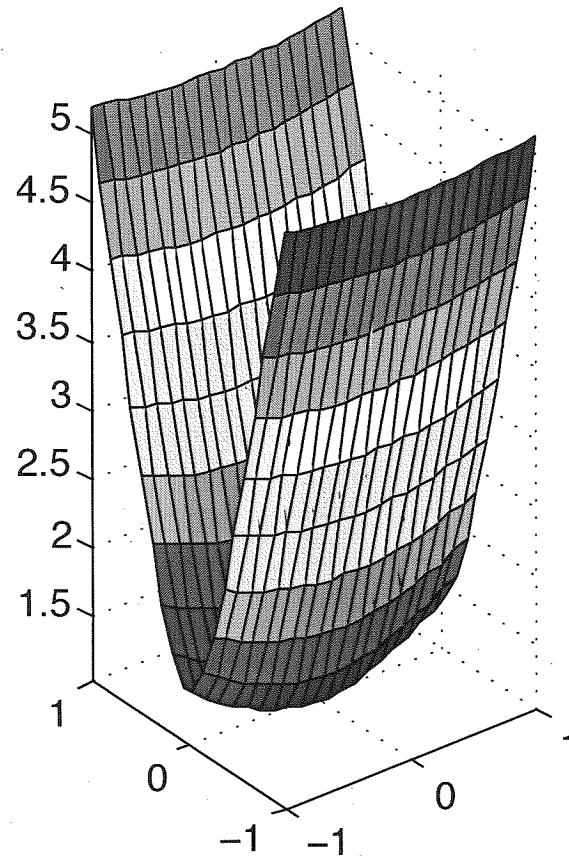
Plot $\varphi(\| \cdot - (0,0) \|)$ on $[-1,1] \times [-1,1]$

$$\varphi(t) = \sqrt{1+t^2}$$

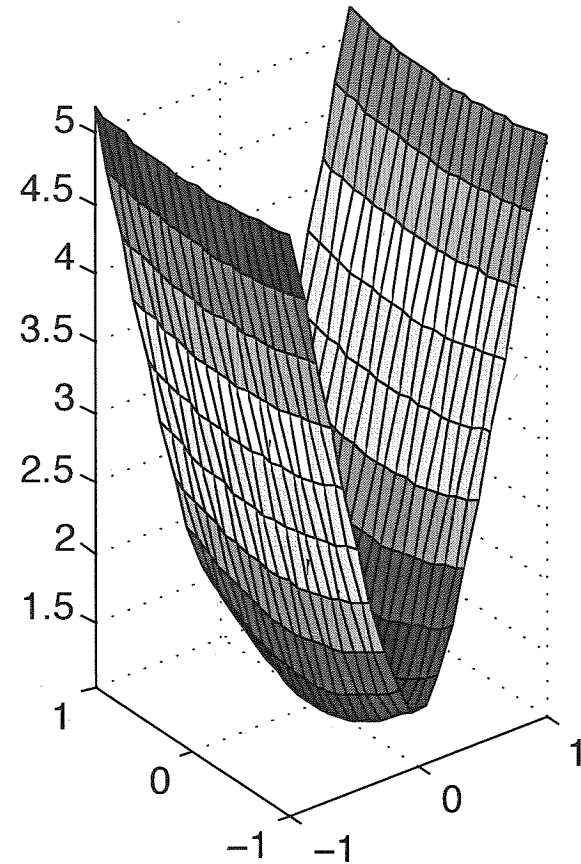
$$\|(x_1, x_2) - (y_1, y_2)\| = \sqrt{|\theta_1|(x_1 - y_1)^2 + |\theta_2|(y_1 - y_2)^2}$$



$\theta_1 = 1, \theta_2 = 1$



$\theta_1 = 1, \theta_2 = 25$



$\theta_1 = 25, \theta_2 = 1$