

Assignment on plot

Plot the function $f(x,y) = \exp(\frac{81}{4}(x^2 + y^2))$ in the domain of a unit circle with a non-concentric hole in the interior as shown in Figure 1. z_2 is a circle with center at $(0.3, 0.3)$ and radius = 0.3. The profile of $f(x,y)$ is shown in Figure 2.

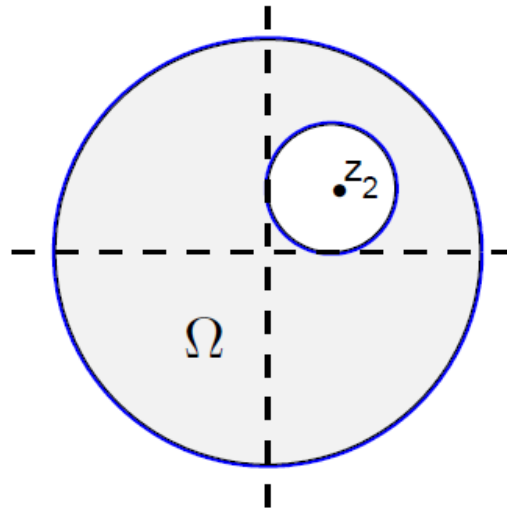


Figure 1. The interior of a unit disk with a non-concentric hole.

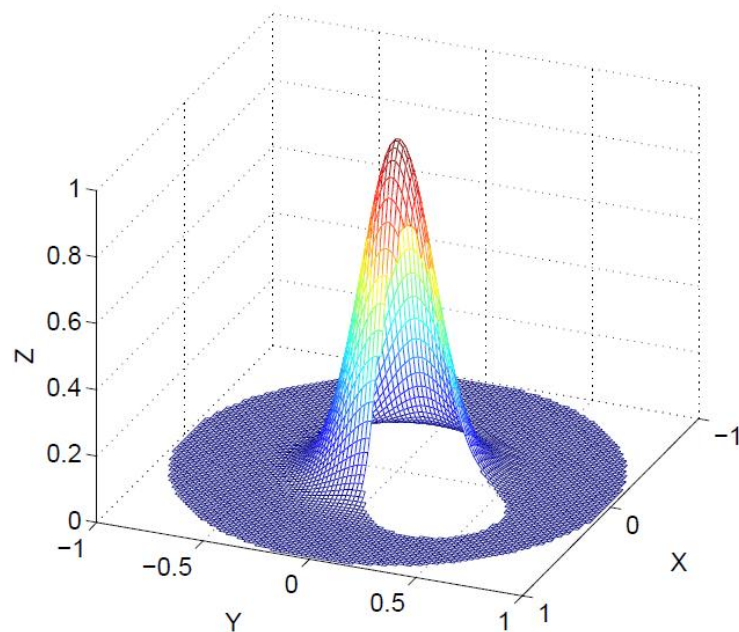


Figure 2. The profile of $f(x,y)$.