

MATH 112A Review: Laplace and Polar Coordinates

1. Let $f(x, y) = xy + x^2y$. What is Δf ?
2. Let $f(x, y) = e^{\sqrt{x^2+y^2}}$. What is Δf in polar coordinates?
3. Let $f(x, y, z) = xyz$. What is Δf ?