Calculus - Multivariable Calculus Grade 12 | Difficulty: Hard

- 1. Find the partial derivative of $f(x, y) = x^2 + y^2$.
- 2. Evaluate the double integral IntegralIntegral($x^2 + y^2$) dA over a given region.
- 3. Determine the gradient of $f(x, y) = x^2 y^2$.
- 4. Find the divergence and curl of a vector field.
- 5. Solve the Laplace equation nabla 2 f = 0.