Math.Econ.Anal.Quiz.3. 15.nov.9.

1. Compute $\int 2x \sin(-3x)\, dx$.

2. Solve the following differential equation! $y'(x) = 2y(x), \quad y(0) = 9;$.

3. Compute the f'_x, f'_y partial derivatives of the following function: $x^3 + x^2 y + y$.

4. Find the critical point of the following function and determine its type! $x^2 - xy - 2x$.