

Quiz 10 - MATH 151

DATE: Week 14, April 14 - 18

INSTRUCTOR: George Voutsadakis

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points.

GOOD LUCK!!

1. Compute the second derivative of $f(x) = x^2e^{3x}$ (5 points)
2. Compute $\frac{dy}{dx}$ if $e^{3x} + x^2 - 5y^3 = e^y$. (5 points)