QUIZ 10 - MATH 112Friday, April 25YOUR NAME:George Voutsadakis

Read each problem **very carefully** before starting to solve it and do only what is asked. Each problem is worth around 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. [6 points] Compute the following integrals using substitution.

(a)
$$\int 2x^3(3x^4+1)^5 dx$$

(b) $\int x^2 e^{x^3 + 5} dx$

1. [4 points] Use the by-parts method to compute the indefinite integral

$$\int \frac{\ln x}{x^5} dx.$$

(**Hint**: First, bring the power upstairs; then choose u and dv.)