

# Math 122 Sections 6.6 Study Guide

Michael Levet

**Problem 1)** Evaluate the following indefinite integrals:

- $\int x(1 - 5x^2)^5 dx$

- $\int \frac{\sqrt{\ln(x)}}{x} dx$

- $\int 6qe^{q^2+1} dq$

- $\int \frac{4x^3}{x^4 + 1} dx$

- $\int \frac{e^t}{e^t + 5} dt$

- $\int \frac{e^x - e^{-x}}{e^x + e^{-x}} dx$

- $\int \frac{e^{\sqrt{y}}}{\sqrt{y}} dy$

- $\int \frac{x + 1}{x^2 + 2x + 19} dx$