

## 5 - Iterated Integrals

---

MATH 211

Evaluate the following integral. [Hint: Make the substitution  $t = \sqrt{x}$  and rewrite the integral.]

$$\int_0^1 e^{\sqrt{x}} dx$$

Evaluate the following iterated integral.

$$\int_0^1 \int_0^{x+1} \frac{1}{x^2 + 1} \, dy \, dx$$