Take-Home Quiz 1

Math 133 Section 22

Due Monday, April 10

Problem 1. (3 points). Compute the following:

$$\int \sin x \cdot e^{\cos x}\, dx.$$

Problem 2. (3 points). Compute the following:

$$\int \left(\cos^3 x + \sin 2x \cos x\right)\, dx.$$

Problem 3. (3 points). Compute the following:

$$\int x\sqrt[3]{x+2}\, dx.$$

Problem 4. (3 points). Compute the following:

$$\int \sqrt{5 - 4x - x^2}\, dx.$$

Hint: Complete the square.

Problem 5. (3 points). Compute the following:

$$\int \frac{2x - 3}{\sqrt{1 - x^2}}\, dx.$$