

MATH1B: QUIZ 1

Name: _____

Section: 209

Problem 1. *Solve the integral*

$$\int \cos^5 t \sin^6 t \, dt.$$

Problem 2. *Solve the integral*

$$\int x^2 5^x \, dx.$$

Problem 3. *Evaluate the integral*

$$\int_0^2 \frac{dt}{\sqrt{4+t^2}}.$$

Problem 4. *Solve the integral*

$$\int \frac{x^3 - 3x^2 + 9x + 14}{x^2 - 4x + 13} dx.$$