

Engineering Calculus I - MAC 2281 - Section 002

QUIZ V

First Name:

Last Name:

In the following exercises, show sufficient work to **communicate** your process.

1. (3 points)

Let  $y = \cos^2(e^x)$ . Compute  $\frac{dy}{dx}$ .

2. (3 points)

Let  $x^2y + \pi^{87} = \tan(y)$ . Compute  $\frac{dy}{dx}$ .

**3.** (4 points)

Let  $f(x) = x^{\cos(x)}$ . Compute  $f'(x)$ .