### NOR FLORIDA ST

# 1. Introduction

Begin Quiz Using the discriminant,  $b^2$  4ac, respond to each of the following questions.



2. What  $T_EX$  System does Fabrice P maintain? Mik $T_FXX$   $E^E$ 

#### Solutions to Exercises

**Exercise 1.** We evaluate by integration by parts:  $\overline{7}$ 

$$x^{2}e^{2x} dx = \frac{1}{2}x^{2}e^{2x}$$
  $xe^{2x} dx$   $u = x^{2}, dv = e^{2x} dx$   
=  $\frac{1}{2}x^{2}e$ 

**Problem 2.1.** The answer is yes. The de nition states that F is an antiderivative of f if  $F^{\emptyset}(x)$   $\overline{X}_{X}$ 5 $_{X}$ 498[(x)]TJ/F19 9f 5.694 0 Td [()5.497(if)]T.

**Problem 2.2.** The answer is yes. The de nition states that F is an antiderivative of f if  $F^{\emptyset}(x) = if$  FA

dt

Exercise 3(a)  $i^2 = 1$ 

# Exercise 3(b)

### Solution to Quiz:

In 1492,

# Solution to Quiz:

### Solution to Quiz: