

# INTRODUCTION TO CALCULUS

MATH 1A

## UNIT 34: WORKSHEET

Lets try to play some music.

### Calculus in Music

**Problem 1:** How do you think the function

$$f(x) = \sin(10000\sqrt{x})$$

sounds?

**Problem 2:** What about

$$f(x) = \sin(10000x^2)?$$

**Problem 3:** And finally

$$\sin(x) \sin(1000x)?$$