

# Homework 3

NO CALCULATORS ALLOWED

## Algebra II (Project GRAD)

- 1) If  $7^x = 3$ , then what is  $x$ ? [Your answer should be some log!]
- 2) Compute [your answer should be a simple number or fraction]:
- (a)  $\log_3(27)$
  - (b)  $\log_2(1/8)$
  - (c)  $\log_4(32)$
  - (d)  $\log_2(1)$
- 3) If  $2^x = 3$ , use your calculator [it is OK in this problem] to find an approximation of  $x$ . [If you don't have a calculator, it suffices to give  $x$  using log's base 10.]