

Name: _____

Section: _____

MATH 120A

QUIZ 7

March 7, 2002

You may use a scientific calculator to complete this quiz. No notes please.

1. (6 points) The population of a town grows according to an exponential model. In 1990, the town's population was 10,500 people. In 2000, the population had grown to 10,900 people.

(a) Find a formula for $P(t)$, the population of the town t years *after 1990*.

(b) What does the model predict for the population in 2002?

2. (4 points)

(a) Compute $\log_5 \frac{1}{125}$.

(b) Find x if $\log_4 x = 3$.