

Name: _____

Section: _____

MATH 120A

QUIZ 7

March 6, 2003

You may use a calculator to complete this quiz. No notes please. Show all work.

1. (4 points) Let $f(x) = \frac{3(x+3)(x-2)}{x^2+1}$. Find each of the following. (The correct response for some of these might be "There are none.")

- Domain:
- Zeros:
- Vertical Asymptote(s):
- Horizontal Asymptote:

2. (3 points) Write the following exponential function in standard form ($y = A_0b^x$):

$$y = \frac{7}{0.26^{3x}}.$$

3. (3 points) Suppose $N(x) = N_0b^x$. You know that $N(0) = 17$ and $N(12) = 24$. Find the values of N_0 and b .