

Name: \_\_\_\_\_

Section: \_\_\_\_\_

**Math 120AB**

**Quiz 4**

**February 12, 2004**

Show all work for full credit.

1. (6 points) Find the horizontal and vertical asymptotes, if any, of the following function:

$$f(x) = \frac{(x+3)(2x-2)}{x^2+6x+8}$$

2. (4 points) Find the inverse function of the following function:

$$g(x) = \sqrt{48-3x^2}, -4 \leq x \leq 0.$$