

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

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

# Math 120A

# Quiz 4

# May 6, 2004

Show all work for full credit.

1. (5 points) Find the linear-to-linear rational function  $f(x) = \frac{ax + b}{x + c}$  such that:

$$f(0) = 0, f(10) = 10, \text{ and } f(20) = 15.$$

2. (5 points) Consider the figure below. If  $s = 3$  meters, and  $\theta = 1.2$ , what is the area of the shaded sector?

