Name:_____

Section:

MATH 120D QUIZ 5 November 7, 2002

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

1. (5 points) Consider the function

$$f(x) = \frac{x^3 + 3x^2 - 4x}{2x^3 + 20x}.$$

(a) Find the horizontal asymptote of f(x).

- (b) How many vertical asymptotes does the graph of this function have? (circle one) $0 \quad 1 \quad 2 \quad 3$
- (c) Find the zeros of f(x).

2. (5 points) An object moves along the edge of a circle with radius 7 inches. The object's linear velocity is 10 inches per second. Find the object's angular velocity in RPM.