

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

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

# Math 120B

# Quiz 2

# October 16, 2003

Show all work for full credit.

1. (5 points) Find the vertex of the graph of

$$f(x) = (1 - x)(2x + 4).$$

2. (5 points) Suppose  $s(x) = ax^2 + b$ . If

$$\frac{s(x+h) - s(x)}{h} = 12x + 6h,$$

then what is  $a$  equal to?