

Score: \_\_\_\_\_ out of 10.

Math 201 - Fake (but useful) Quiz

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

1. Let  $f(x) = \sqrt{x}$ .

(a) Use the definition of the derivative to calculate  $f'(4)$ .

(b) Find an equation for the tangent line to the curve  $f(x) = \sqrt{x}$  at  $x = 4$ .

2. Let  $f(x) = \frac{2}{x+1}$ . Use the definition of the derivative to find  $f'(x)$ .