

**235 Quiz 4****Name****Section**

October 7, 2010

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*Work individually. No notebooks. No calculators. Just you, a pencil/pen, and paper.*

1. Use the definition of derivative ( $h \rightarrow 0$  or  $z \rightarrow x$ , your choice) to show that the derivative of  $f(x) = \sqrt{x}$  is  $f'(x) = \frac{1}{2\sqrt{x}}$ .