

Math 140, Section 5

Quiz #5

February 9, 2001

Note: Calculators are not allowed.

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

1. Use the chain rule to find  $f'(x)$ , the derivative of  $f(x)$ .
2. What are the domains of  $f(x)$  and  $f'(x)$ ?
3. Let  $G$  be the graph of  $y = \sin \sqrt{x}$ . Find all points of  $G$  at which the tangent line is horizontal.