

Name: _____

Date: _____

Learning Goal 3.6	Linear Approximations.
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More Questions

1. Approximate the value of $\sqrt{51}$ without a calculator.
2. Approximate the value of $\sin 87^\circ$.
3. Given that $f(5) = 3$ and $f'(5) = 1/2$, approximate the value of $f(5.02)$.
4. Let $f(x) = \sqrt{x+4}$. What is $f(6)$?
5. Find the linear approximation of $\sin x$ at $x = 0$.
6. Find the linearization of $f(x) = \sqrt[3]{x}$ then use it to approximate when $x = 9$.