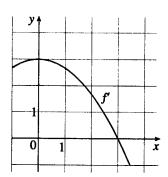
Group Work 2, Section 3.10 Linear Approximation

Consider this graph of f'(x), the *derivative* of f(x).



1. Suppose that f(2) = 4. Approximate f(1.98) and f(2.02) as best you can. Don't just guess. Show your work.

2. Determine whether your approximations were overestimates or underestimates.

3. Suppose you also know that f(3) = 7. Can you approximate f(2.98) and f(3.02)? Explain your answer.