| Lecture Quiz \& Bordeianu, | To Accompany: Numerical Differentiation <br>  |
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1. The mathematicians tell us that the derivative

$$
\frac{d y}{d y}=\lim _{h \rightarrow 0} \frac{f(t+h)-f(t)}{h} .
$$

What's the problem with using this definition on a computer?
2. How does one change the definition of derivative in question 1. to a practical algorithm?
3. What's the difference between the forward difference and the central difference algorithms for a derivative?
4. How do you derive an algorithm for a second derivative from the algorithm for the first derivative?

