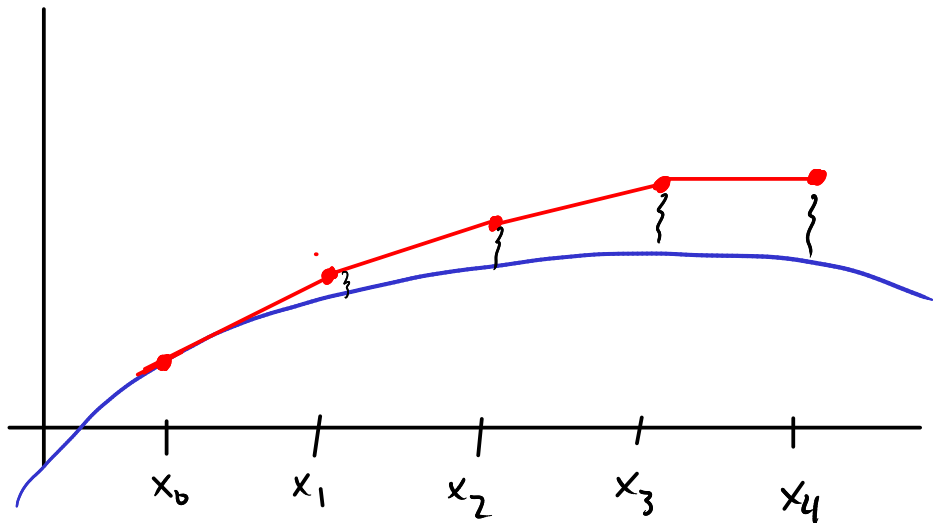


Another issue is that errors may add up (accumulate)

Eg.



Each step introduces some error, and they may all have the same sign.

Also the error propagates from one step to the next

$$y_{n+1} = y_n + h \cdot f(x_n, y_n)$$

↑ this point is not actually on the solution curve we are trying to find, so the true slope could be slightly different.

Lastly, there is the issue of rounding / adequate representation of decimal numbers.

In spite of these limitations, Euler's method is fundamental to numerical solution of differential equations.