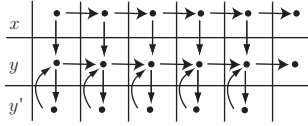
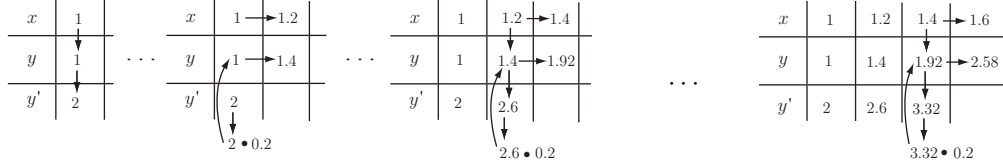


Euler's Method



For $y' = x + y$ with initial conditions $y(1) = 1$.

Since $\frac{\Delta y}{\Delta x} \approx \frac{dy}{dx} = y'$ it follows that $\Delta y \approx \Delta x \cdot y' = \Delta x(x + y)$:



The corresponding slope field:

