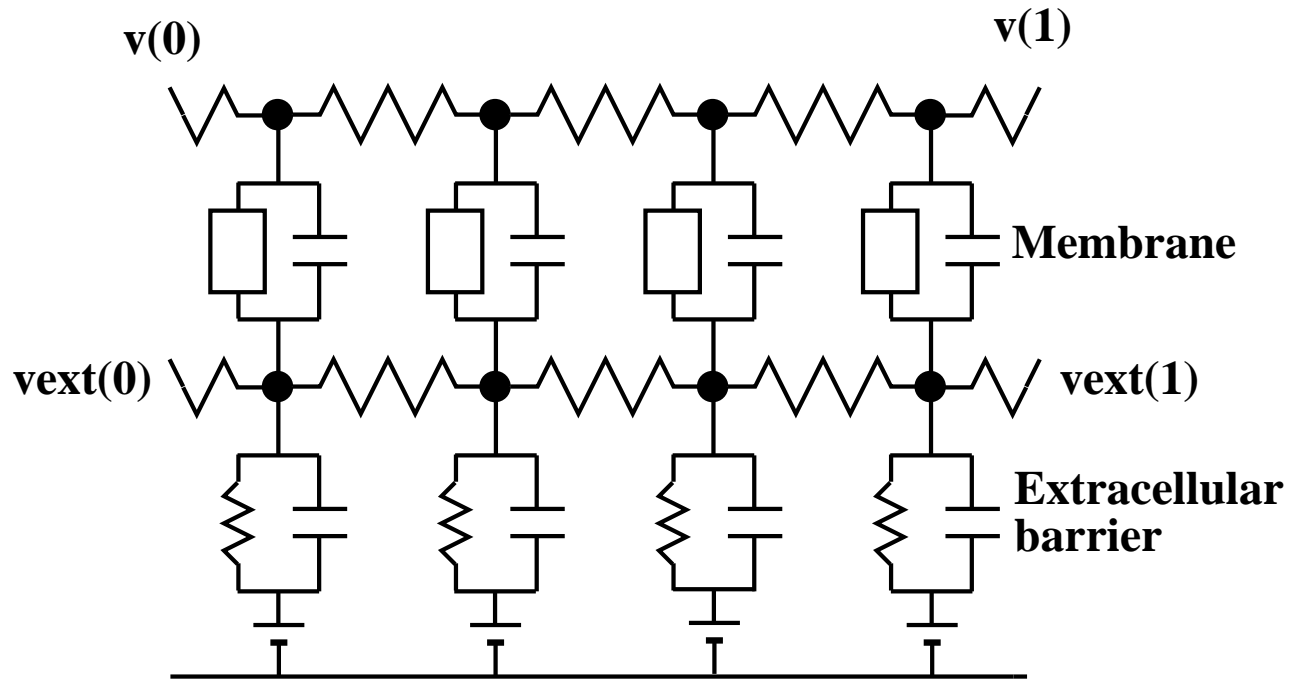
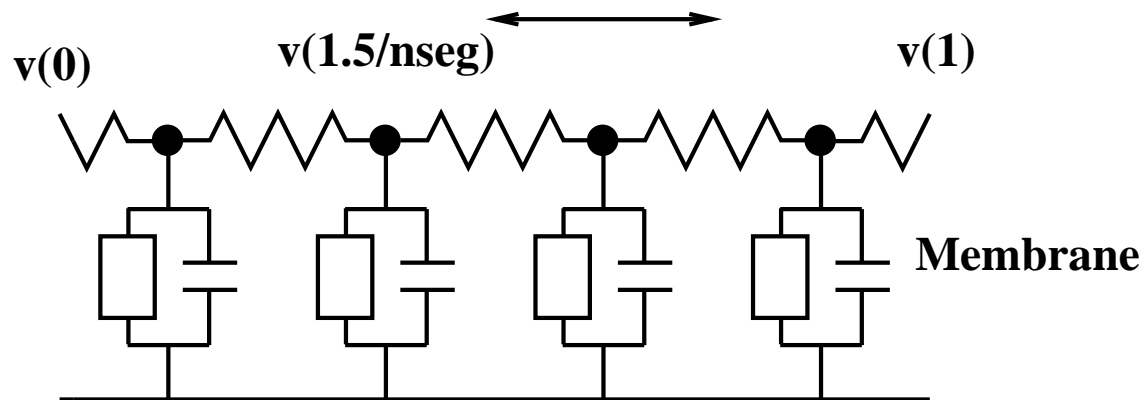
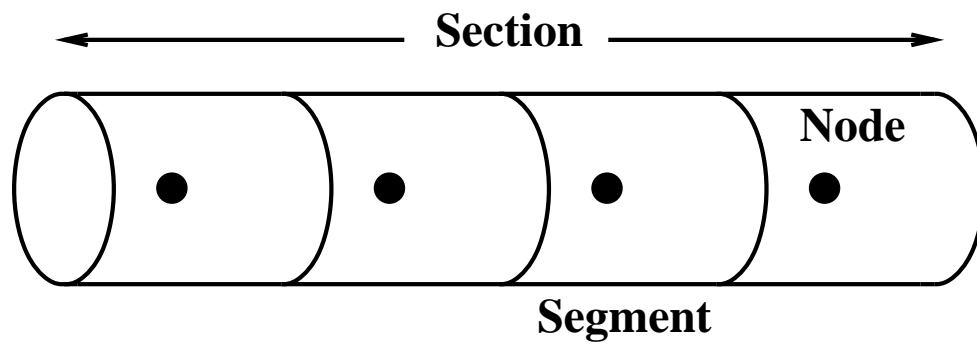


Compartmental Modeling

Not much mathematics required.

Good judgment essential!

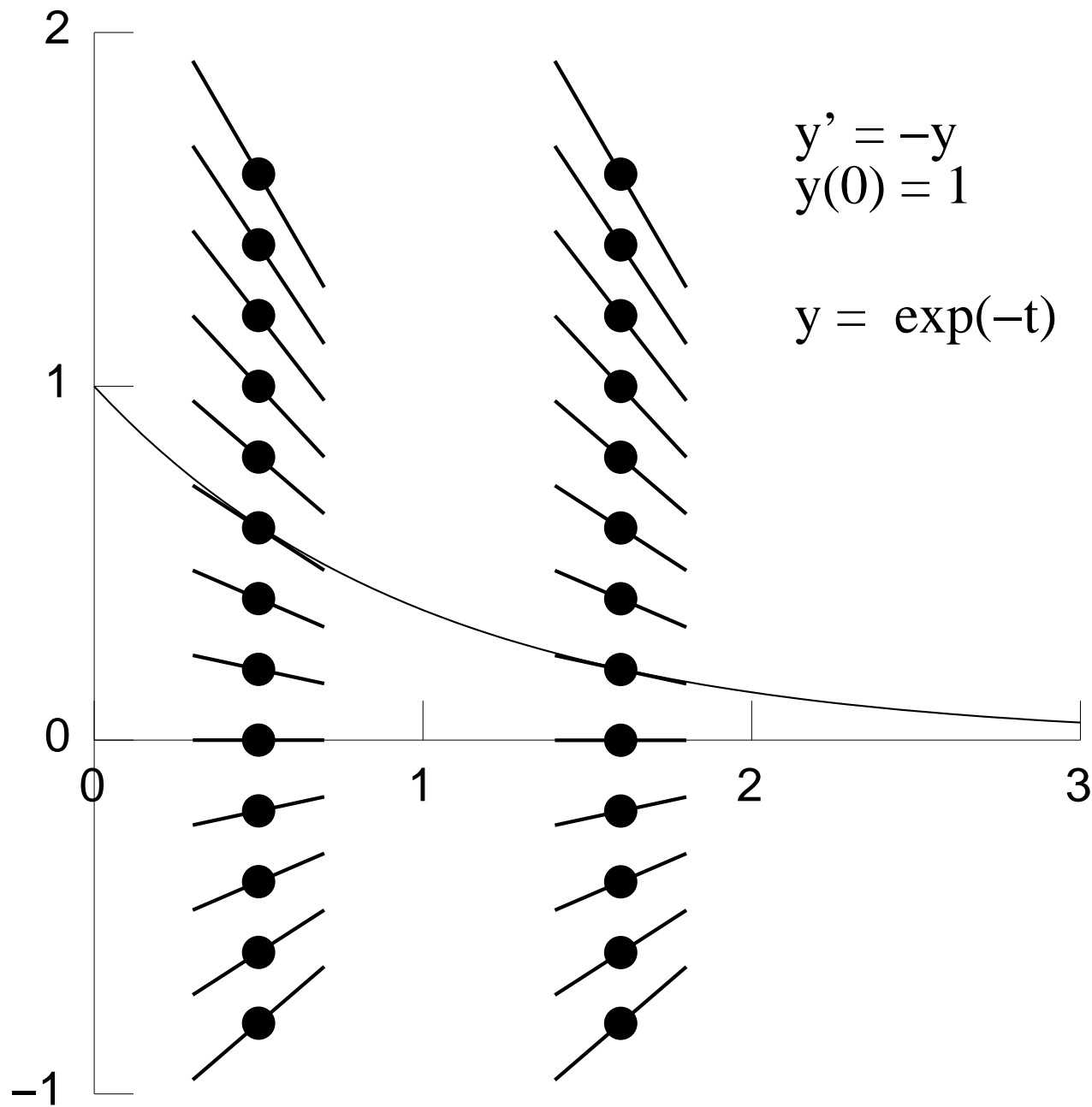


$$y' = f(y)$$

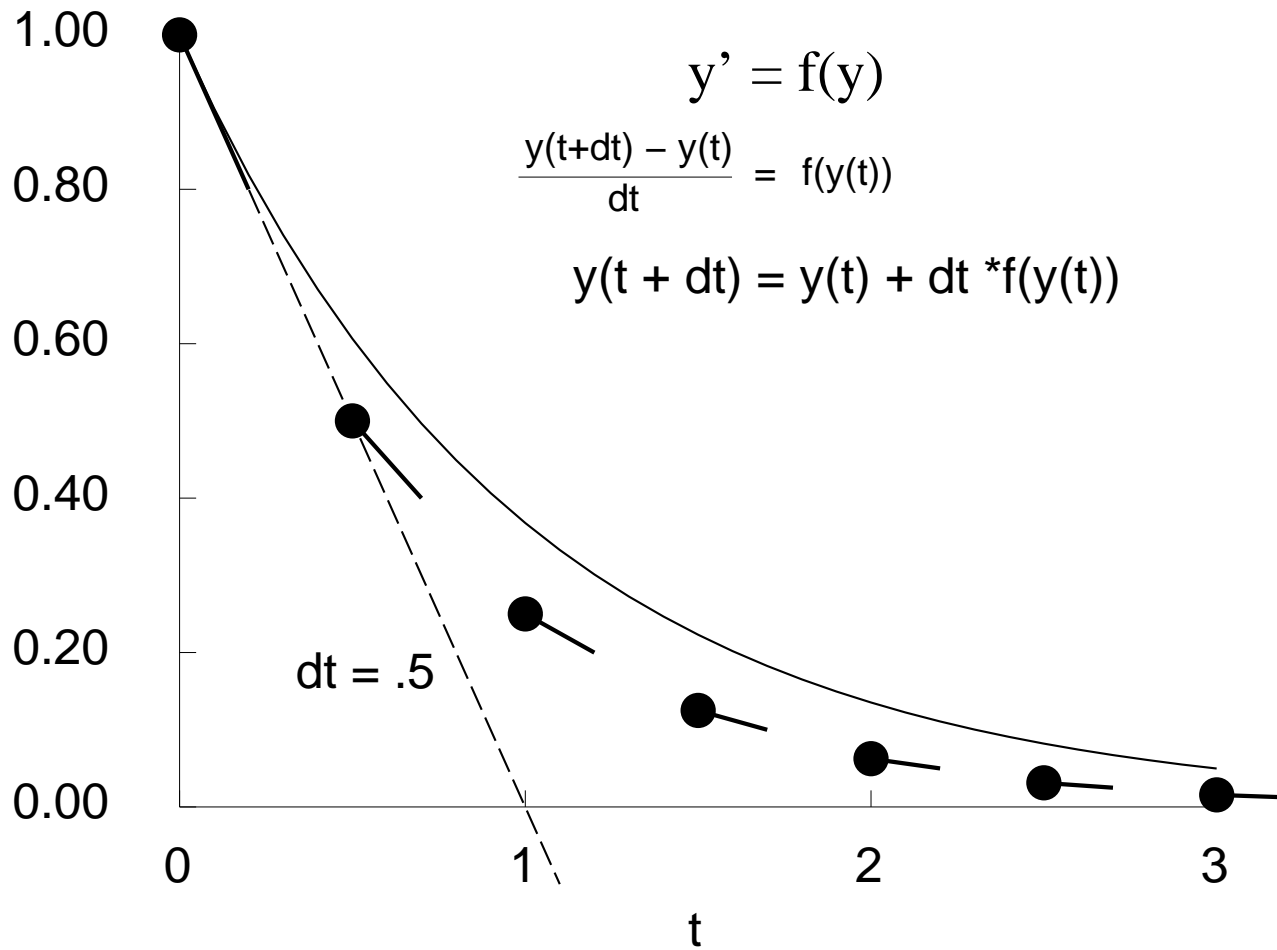
$$y' = -y$$

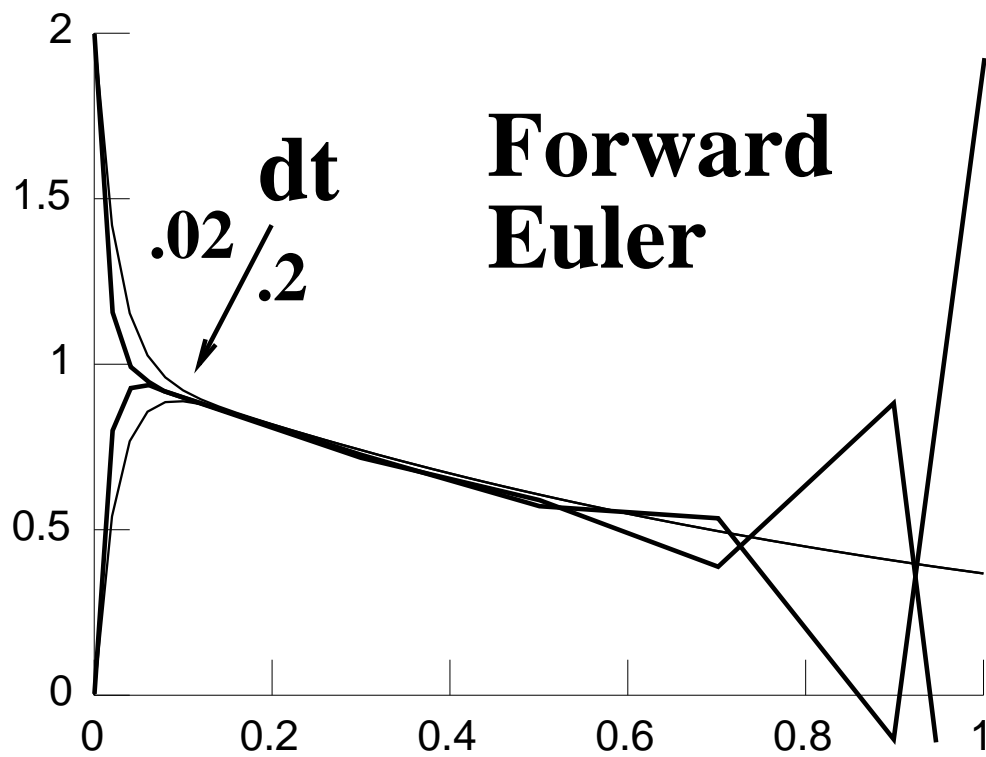
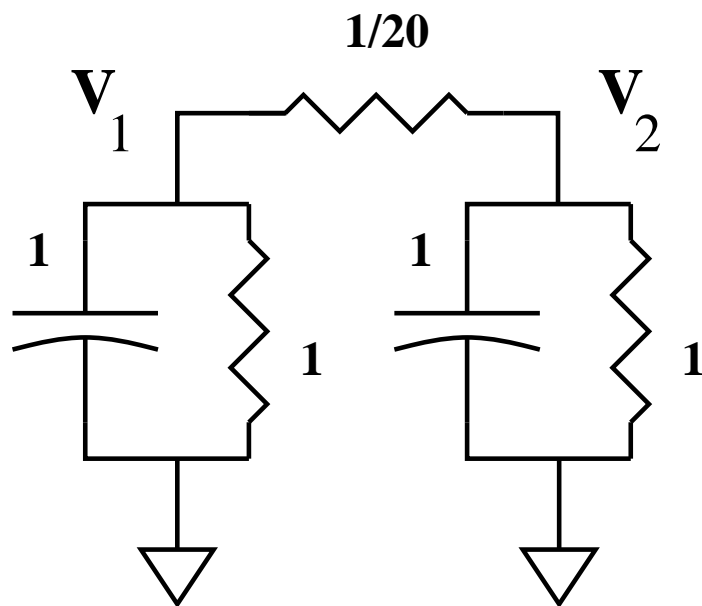
$$y(0) = 1$$

$$y = \exp(-t)$$

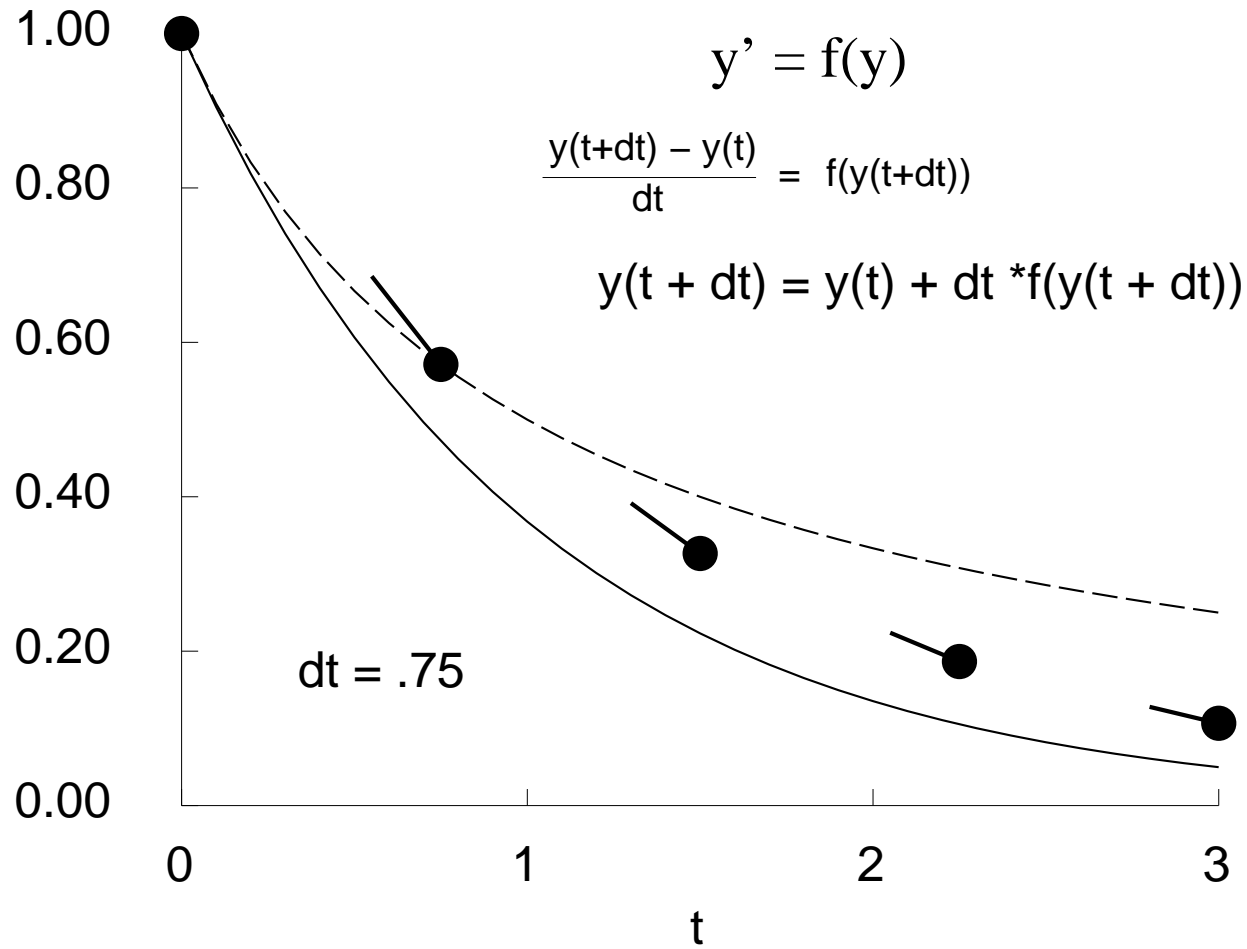


Forward Euler

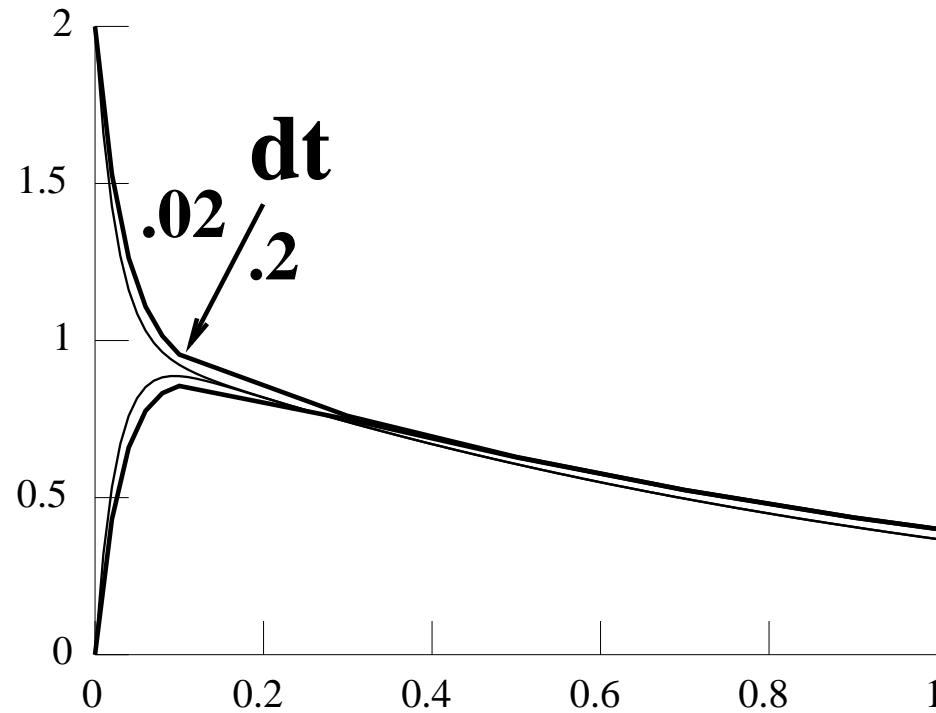
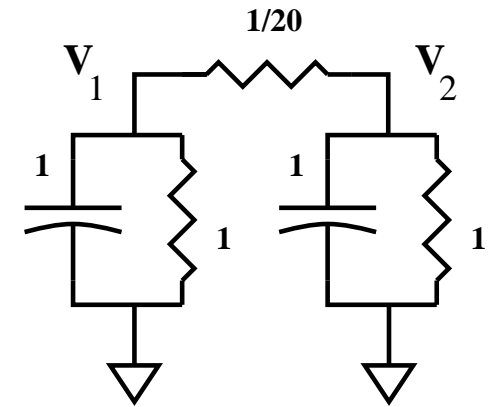
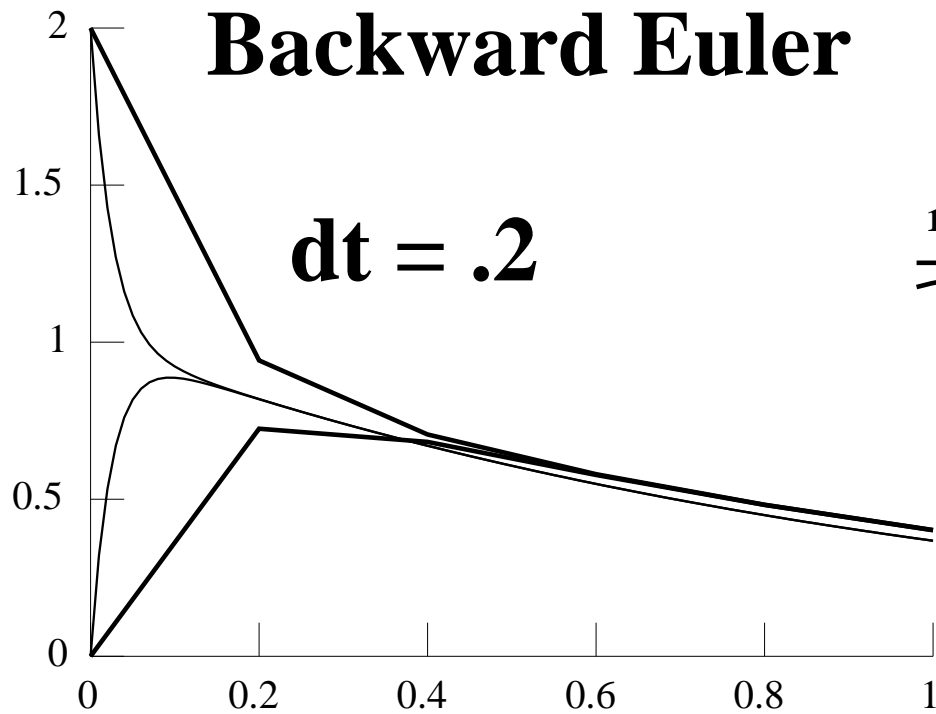




Backward Euler



Backward Euler



Crank–Nicholson

