## Class 35: Wednesday December 4

## Putting it all together

Consider the following IVP:

$$\frac{dy}{dt} = ty$$
 where  $y(0) = 3$ .

Your goal is to find (either approximately or exactly) the value of y when t=1. Do this in as many ways as possible, showing your work and explaining your methods clearly. For any recursive process you use, you should carry out at least 4 iterations.