Recall from Monday:

- when a quantity $A(t)$ grows at a rate proportional to the amount present, it's growth is described by the differential equation $A' = kA$, where k is the constant of proportionality.
- The general solution to this D.E. is $A(t) = Ce^{kt}$. For any particular situation, you need to find C and k, using what you know about your quantity.
- $C = A(0) =$ the amount present at time $t = 0$.