1. Each of the following functions gives the amount of substance present at time t. Give the amount initially present (at t = 0), state whether the function represents exponetial growth or decay, and give the percentage growth or decay rate.

(a) $A(t) = 100(1.07)^t$

(b) $A(t) = 12(0.88)^t$.

- 2. Worldwide, wind energy generating capacity measured in thousands of megawatts, W was 40 in 2003 and 320 megawatts in 2006.
 - (a) Use the values given to write, W, in megawatts, as a linear function of t, the number of years since 2003.

(b) Use the values given to write W as an exponential function of t, the number of years since 2003. Give the annual percentage growth rate.