Ch.3/4 Calculator

**1.** The mass *m* kg of a radio-active substance at time *t* hours is given by

 *m* *=* 4e–0.4*t*.

1. Write down the initial mass.

(b) The mass is reduced to 0.75 kg. How long does this take?

**2.** $1000 is invested at 5% per annum interest, **compounded monthly**. Calculate the minimum number of months required for the value of the investment to exceed $2000.