A hard-boiled egg at 98°C is put in a pan under running 18°C water to cool. After 5 minutes, the egg’s temperature is found to be 38°C. How much longer will it take the egg to reach 20°C?

Solve the problem manually.

Using WxMaxima, find

(i) general solution

(ii) particular solution using the initial conditions

(iii) represent the particular solution graphically

(iv) give inference