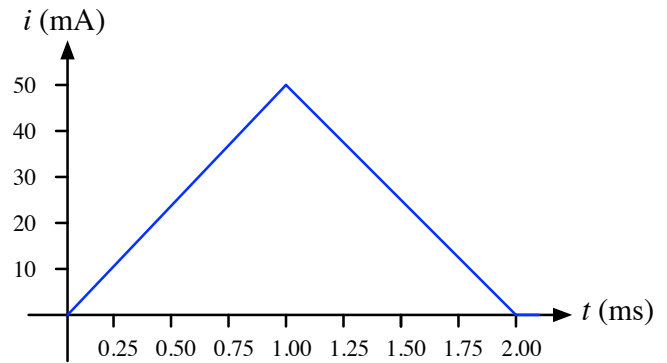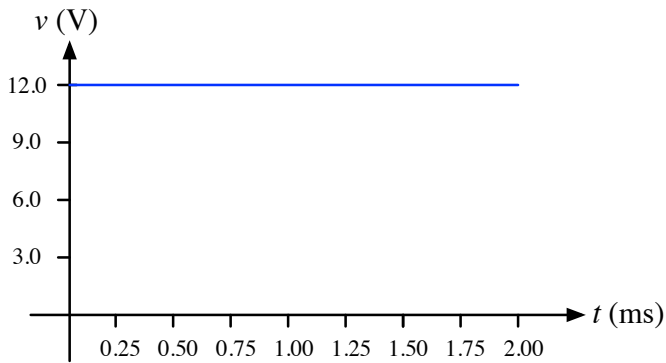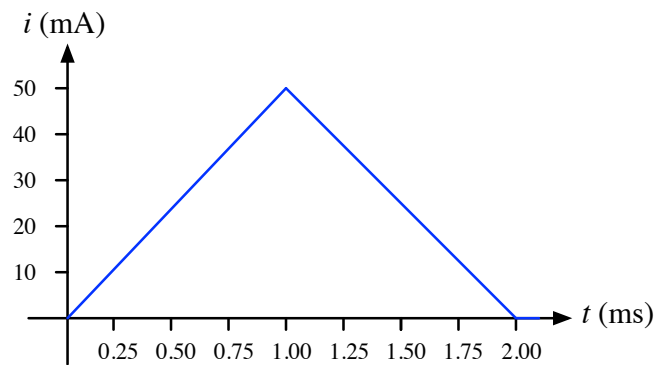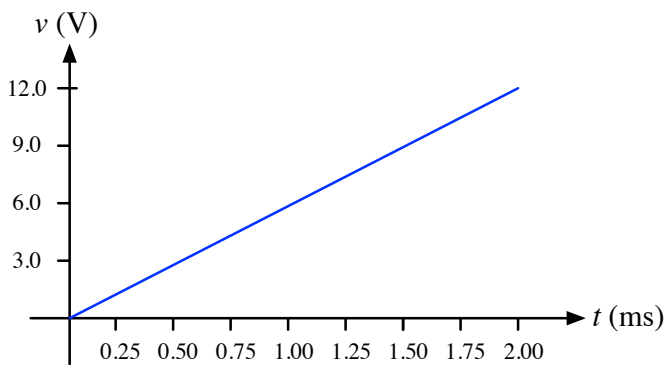The voltage across some electrical component and the current through it are shown as functions of time in the graphs below. Calculate the total charge transferred between 0 and 2 ms. Then calculate the total energy dissipated in the interval from 0 to 2 ms.

$Q =$ _____ $E =$ _____

Calculate the energy transfer if the voltage is changing linearly, as shown below.

$E =$ _____

Write your answers — and whatever work will fit — on this sheet. Staple any sheets with additional work behind.