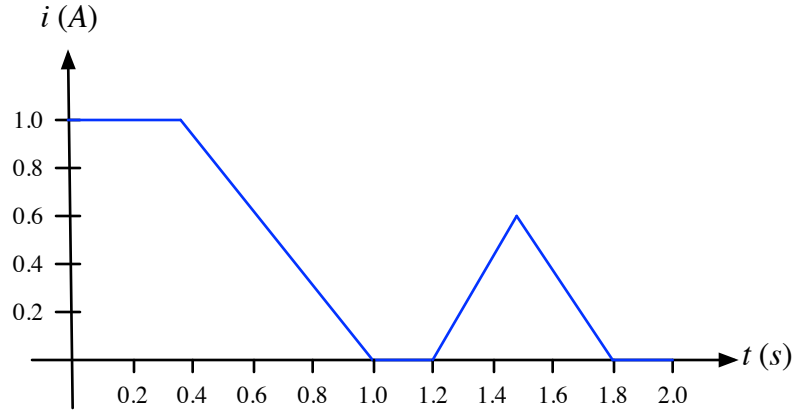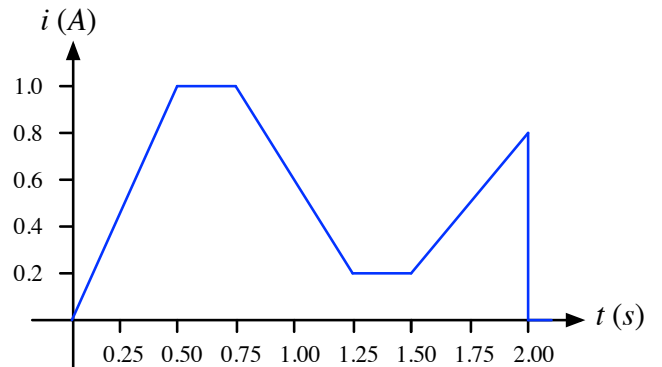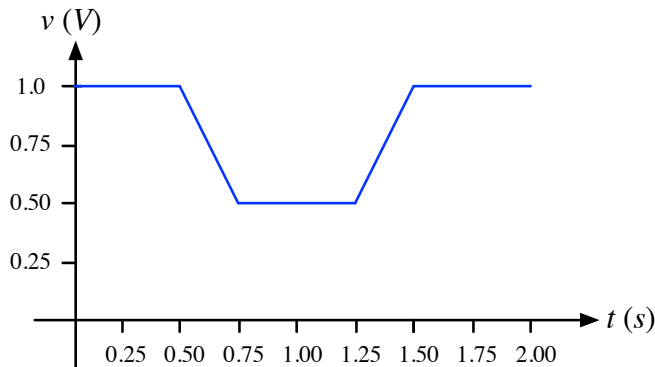**EE 201 — HW 1-6**   Name_____

i (A)

a) A battery is providing a constant 12 V at the output. The current from the battery is varying with time as shown at right. Calculate the total energy produced by the battery in the interval from 0 to 2 s.

$E =$ _____

b) The voltage across some electrical device and the current through it are shown as functions of time in the graphs below.. Make a quantitative graph of the power being dissipated in the device. Then calculate the total energy dissipated in the interval from 0 to 2 s.

E between $t = 0$ and $t = 2$ s = _____

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