Fig. 7.2

Calculate, for $I = 1.2\,A$,

(i) the p.d. across X,

p.d. = ... V [2]

(ii) the resistance of Y,

resistance = ... Ω [3]

(iii) the power dissipated in the battery.

power = ... W [2]

(c) Fig. 7.2 to explain the variation in the terminal p.d. of the battery as the resistance R of X is increased.

....

.... [1]