Am no. 1

Here, $\Delta V = (V_{+}) - (V_{-}) + bhA \leftarrow bon a printed from a prin$

= 400 R = 10D We Vrow, V = IR $On, I = \frac{V}{R}$ $\frac{40}{10} = AA$

no. 2 Am

Sugar V St VA=2012V (bookdon) = 90 (cités promis)

Total silgerine sum = 0

2 -5V. Ame = 1 00, DV = 10

Again, CHAMPY WONNING Am/-= ol P = NI

on, -5v = 22v - VB 0 = pl + el + el + , I on VB = (22 +5) v

01 - 11 - 11 - 12 10 = 27V

Ceriting (Am.) Formed AMA =

(...A) A ONAT , no & AMAT = p [..

Am no. 3

Know,

Current exiting a node > (add
" entening u " > (subtract).

Total salgebric sum = 0

Given,

ord. I,= 12mA

I2 = 9 m A

I3 =-1 mA

Iq2 9

[unknown current be Ia]

ward the

VAOD ON

 $-I_1 + I_2 + I_3 + I_4 = 0$ on $I_4 = I_1 - I_2 - I_3$

= AmA Fericit (Cexiting)

1. I4 = +4mA 0 on, +9x10-3A

Am vo. 4

Here, $-1.602 \times 10^{-19} \text{ c}$ in consisted by 1 electron

1 e

-8.01

-8.01

-1.602 × 60-1.602 × 60-1.602 × 60-1.602 × 60-1.602 × 60-1.602 × 60-1.602 × 60= 5 × 10 19 electroms.

(Am.)

Am no. 5

Given, VA2 -22 V VB = - 2V q= -5C

We Know, W= q. AV

z q. (VA - VB)

= -5 × (-72 - (-7)).

= 85 Joule. (Am)