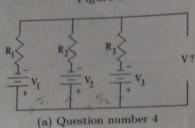
Figure 3

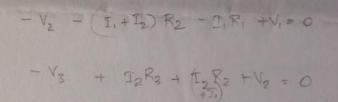




4. (1 point) Identify the mathematical operation on the voltage sources achieved at the output V by the circuit shown in Figure (3a)

- 1
- A. Mean of all voltages
- B. Mode of all voltages

- C. Median of all voltages
- D. None of these
- 5. (2 points) The horizontal and vertical sensitivity knobs of a CRO are set to 50ms/div and 4V/div respectively. If a signal,  $x(t) = 8cos(10\pi t + 30^{\circ})$  V is applied at Ch-1, find the number of vertical and horizontal divisions spanned by one cycle on the screen of the CRO.
  - A. Number of vertical div.: ...4
- B. Number of horizontal div.: 4.....



 $V_2 + I_2 R_2 = V_3 - I_2 R_3 = V_1 - I_1 R_1 - I_1 R_2 - I_1 R_2$ 

V - -V + I'R

IR - V1 = I2R2 - V2 - T3

V3 - J2 R3 = V, - I, R2

 $I_1 = V_1 - V_3 - I_2 R_3$   $R_2$ 

- VgR2 T2 RR2+ (V,-V3-I2R3+I)

 $V_1 \times R_1$   $R_1 + R_2 R_3$   $R_2 + R_3$ 

Vz xR2

V, (R, R, +R, R3)

R, R, + R, R3 + R2 R3

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 $\omega = 10\pi$   $\frac{2\pi}{10\pi}$ 

2 (VI+ Po + Do)

http://www.iitg.ac.in/scifac/cep/public