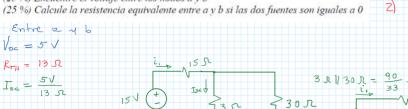
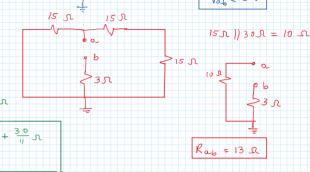


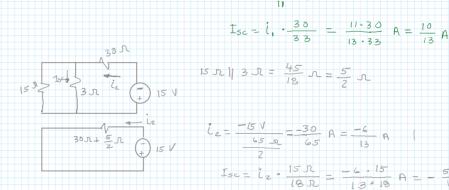
15 V

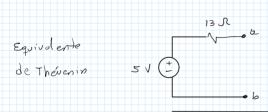
- 1. (25%) Encuentre el voltaje entre los nodos a y b
- 2. (25%) Calcule la resistencia equivalente entre a y b si las dos fuentes son iguales a 0



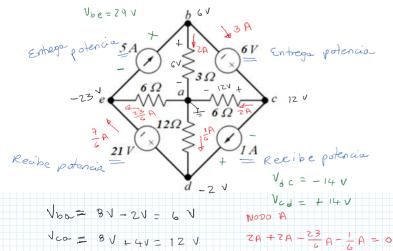


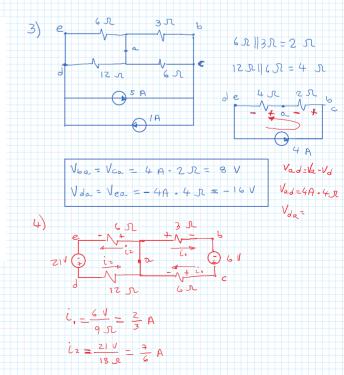
 $T_{SC} = \frac{5}{13} A$



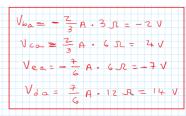


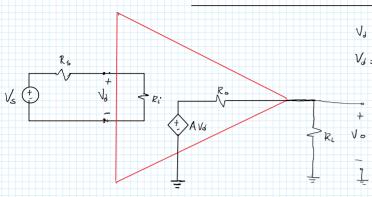
- 3. (25%) Para el circuito de la siguiente figura calcule los voltajes V_{ba} , V_{ca} , V_{da} , y V_{ea} , si las fuentes de voltaje son iguales a 0
- (25 %) Para el circuito de la siguiente figura calcule los voltajes Vba, Vca, Vda, y Vea, si las fuentes de corriente son iguales a 0





Vda = -16 V + 14 V = -2 V





AMPLIFICADOR OPERACIONAL

$$V_d = V_s$$
 R:
$$\frac{R:}{R: + Rs}$$

$$V_o = AV_d \frac{R_L}{R_L + R_o}$$

$$V_o = A \cdot V_s \frac{R_i}{R_s} \cdot R_s$$

$$\frac{V_o}{V_S} = A \frac{R: R_L}{(R_L + R_S)(R_L + R_S)}$$

Ri - > Resistencia de entrada Ro - > Resistencia de solida