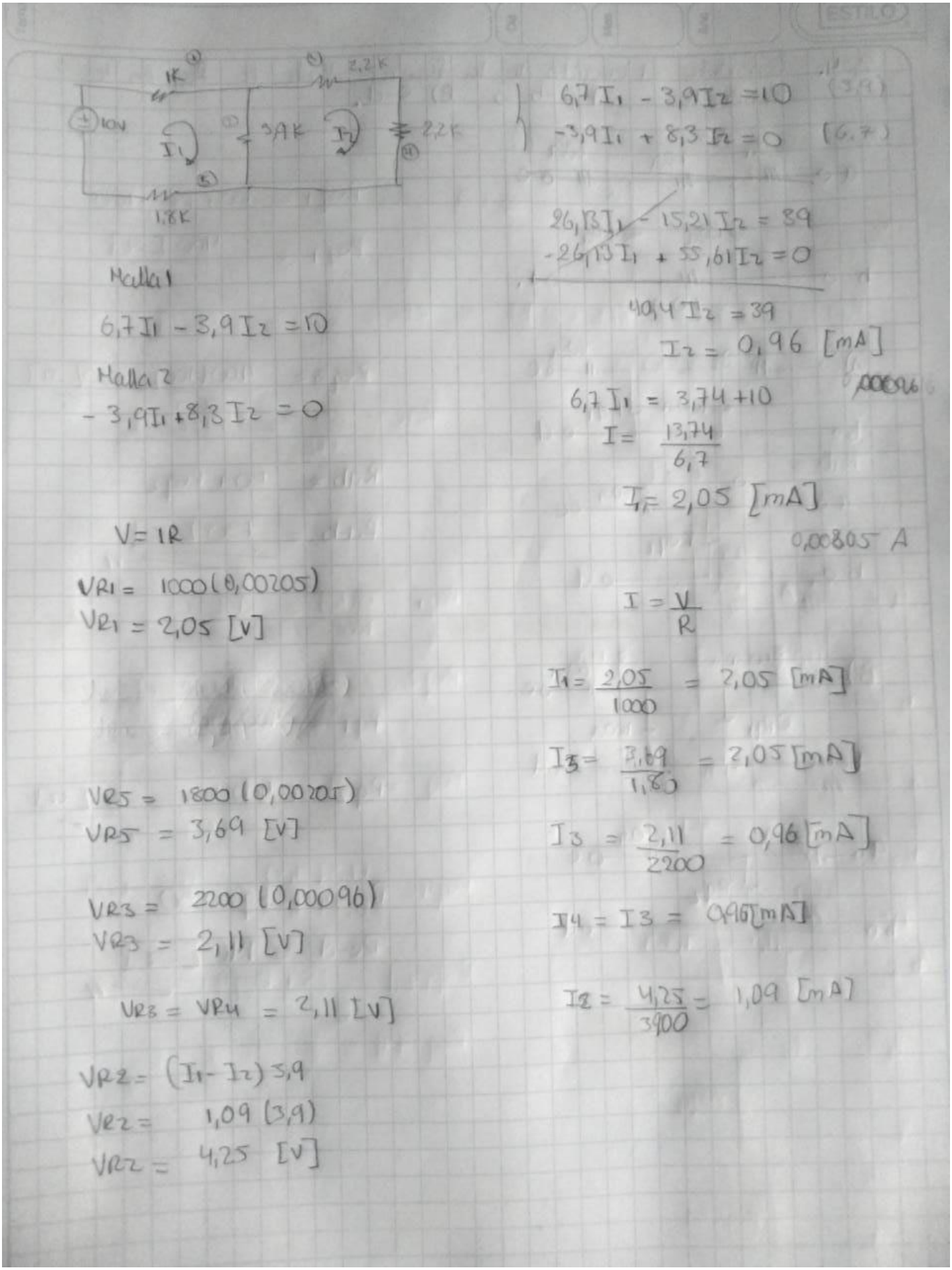
Resolución de Circuito a implementar



Malla 1

$6,7 I_1 - 3,9 I_2 = 10$

Malla 2

$-3,9 I_1 + 8,3 I_2 = 0$

$6,7 I_1 - 3,9 I_2 = 10$ (3,9)

$-3,9 I_1 + 8,3 I_2 = 0$ (6,7)

$26,13 I_1 - 15,21 I_2 = 39$

$-26,13 I_1 + 55,61 I_2 = 0$

$40,4 I_2 = 39$

$I_2 = 0,96$ [mA]

$6,7 I_1 = 3,74 + 10$

$I = \frac{13,74}{6,7}$

$I_1 = 2,05$ [mA]

0,00805 A

$V = IR$

$V_{R1} = 1000 (0,00205)$

$V_{R1} = 2,05$ [V]

$I = \frac{V}{R}$

$I_1 = \frac{2,05}{1000} = 2,05$ [mA]

$V_{R5} = 1800 (0,00205)$

$V_{R5} = 3,69$ [V]

$I_3 = \frac{3,69}{1,80} = 2,05$ [mA]

$V_{R3} = 2200 (0,00096)$

$V_{R3} = 2,11$ [V]

$I_3 = \frac{2,11}{2200} = 0,96$ [mA]

$I_4 = I_3 = 0,96$ [mA]

$V_{R3} = V_{R4} = 2,11$ [V]

$V_{R2} = (I_1 - I_2) 3,9$

$V_{R2} = 1,09 (3,9)$

$V_{R2} = 4,25$ [V]

$I_2 = \frac{4,25}{3900} = 1,09$ [mA]