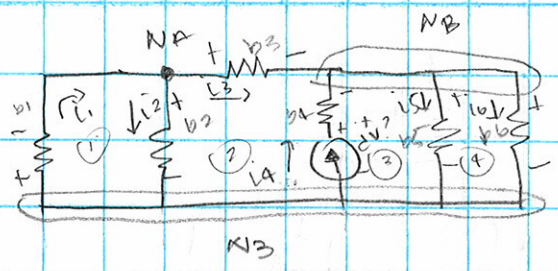


$n = 3 \quad \# EC = n - 1 = 3 - 1 = 2$

$b = 6 \quad \# EC = b - n + 1 = 6 - 3 + 1 = 4$

(A) $I_1 - I_2 - I_3 = 0$

(B) $I_3 + 13.7A - I_5 - I_6$

(1) $-I_1(12\Omega) - I_2(8\Omega) = 0$

(2) $I_2(8\Omega) - I_3(5\Omega) + (13.7A)(2\Omega) - V_1 = 0$

(3) $V_1 - (13.7A)(2\Omega) - I_5(6\Omega) = 0$

(4) $I_5(6\Omega) - I_6(3\Omega) = 0$

$I_1 = -2.79A$

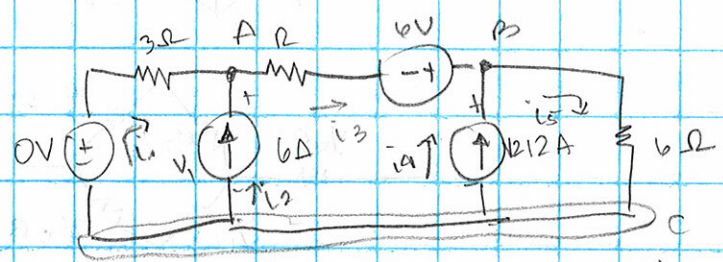
$I_2 = 4.18A$

$I_3 = -6.97A$

$I_5 = 2.24A$

$I_6 = 4.49A$

$V_1 = 40.87V$



$n = 3 \quad \# EC = 2 \quad (n-1)$

$b = 5 \quad \# EC = 3 \quad (b-n+1)$

(A) $I_1 + 6A - I_3 = 0$

(B) $I_3 + 12A - I_5$

(1) $0V - I_1(3\Omega) - V_1 = 0$

(2) $V_1 - I_3 R + 6V - V_2 = 0$

(3) $V_2 - I_5(6) = 0$