Millman

V_P ?

loi des noeuds : $i_1 = i_2 + i_3$

$U = Zi \Rightarrow i = YU$

$$V_{AP} \cdot Y_1 = V_{PB} \cdot Y_2 + V_{PC} \cdot Y_3$$

$$\left(U_A - V_P\right) Y_1 = \left(V_P - V_B\right) Y_2 + \left(V_P - V_C\right) Y_3$$

$$V_P \left(Y_1 + Y_2 + Y_3\right) = V_A Y_1 + V_B Y_2 + V_C Y_3$$

$$\boxed{V_P = \frac{V_A Y_1 + V_B Y_2 + V_C Y_3}{Y_1 + Y_2 + Y_3}}$$