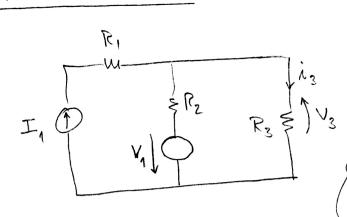
SUPERPOSITION



$$I_1 = 1A$$
; $V_1 = 20V$

$$R_1 = R_2 = R_s = W_{s}$$

$$i_{31} = I_1 \cdot \frac{R_2}{R_2 + R_3} = 1 \cdot \frac{10}{10 + 10} = \frac{0.5A}{10 + 10}$$

$$V_{31} = i_{31} \cdot R_3 = 0.5 \cdot 10 = 5V$$

(2)
$$I_1 = 0$$
; $V_1 = 20V$

$$i_{32} = -\frac{V_1}{R_2 + R_3} = -\frac{20}{lo + lo} = -\frac{1}{A}$$

$$V_{32} = i_{32} \cdot R_3 = -1 \cdot 100 = -100$$

$$i_3 = i_{31} + i_{32} = 0,5 + (-1) = \frac{-0,5A}{}$$

$$V_3 = V_{31} + V_{32} = 5 + (-10) = \frac{-5V}{}$$