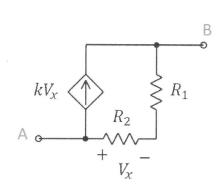
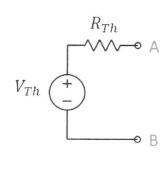
The circuit on the right represent the Thevenin model of the circuit on the left. Find the value of V_{Th} and R_{Th} .



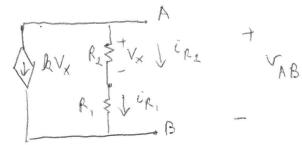


$$R_1 = 4 \Omega$$

$$R_2 = 2 \Omega$$

$$R = -2 \Delta$$

REDRAW:



(a) LEAVE A-B OPEN: KCL:
$$k \vee_{x} + \frac{1}{R_{2}} = 0 \Rightarrow (k + \frac{1}{R_{2}}) \vee_{x} = 0 \Rightarrow \bigvee_{AB} = 0 \Rightarrow V_{TH} = 0 \vee_{TH} = 0 \vee$$

$$i_{test} = i_1 + i_2 = V_{test} \frac{(1 + kR_2)}{R_1 + R_2}$$

=>
$$R_{TH} = \frac{V_{cut}}{i_{cut}} = \frac{R_1 + R_2}{i + R_2} = \frac{4 + 2}{1 + (-2)2} = \frac{6}{-3}$$

e, = Vest d'vide

iz = &Vx = & Vest Rz
R+R.