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1. $v_1 = 4 \text{ V}$, $v_2 = 9 \text{ V}$, $v_3 = 7 \text{ V}$
 2. $v_1 = 19 \text{ V}$, $v_2 = 9 \text{ V}$, $v_3 = 4 \text{ V}$, $v_4 = 3 \text{ V}$, $v_5 = 16 \text{ V}$
 3. All measurement arrows point down or to the right.
 $i_{R1} = 7.5 \text{ mA}$, $i_{R2} = 15 \text{ mA}$, $i_{R3} = -4 \text{ mA}$, $i_{R4} = -1.2 \text{ mA}$, $i_{R5} = 4 \text{ mA}$, $i_{R6} = 0.25 \text{ mA}$
 4. Left to right. $i_1 = 1 \text{ A}$, $i_1 = -10 \text{ mA}$, $i_1 = -0.25 \text{ A}$
 5. Left to right. $i_1 = 0 \text{ A}$, $i_1 = 25 \text{ mA}$, $i_1 = -15 \text{ A}$