1. $v_1 = 15$ V

2. $i_1 = 2$ mA

3. $v_1 = (v_a + i_a R_3) \dfrac{R_2}{R_1 + R_2 + R_3}$

4. a) $i_1 = \dfrac{v_a}{R_1} \dfrac{\alpha}{\alpha - 1}$

    b) Answers vary. Choose convenient values for R's and sources so solution is obvious. Make sure general answer agrees with the simplified case.

5. $v_o = i_s R_4 \left(1 + \dfrac{R_2 + R_3}{R_1} \right) - v_s \dfrac{R_2 + R_3}{R_1}$