

### GABARITO LISTA 4

1)

1.1	1.2	1.3	1.4
$v_2 = -3 \text{ V}$ $v_4 = -6 \text{ V}$ $v_6 = 6 \text{ V}$ $i_3 = -3 \text{ A}$ $i_4 = 3 \text{ A}$ $i_6 = 4 \text{ A}$	$v_2 = -6 \text{ V}$ $v_3 = -4 \text{ V}$ $v_6 = 2 \text{ V}$ $i_2 = -4 \text{ A}$ $i_4 = -3 \text{ A}$	$v_1 = 2 \text{ V}$ $v_2 = -22 \text{ V}$ $v_3 = 10 \text{ V}$	$i_o = 1 \text{ A}$ $V_o = 4 \text{ V}$

2)  $v = 21 \text{ V}$      $i = 5 \text{ A}$   
 $P(\text{fonte tensão}) = 60 \text{ W}$   
 $P(\text{fonte corrente}) = 63 \text{ W}$

3)

3.1	3.2
$P_4 = 100 \text{ W}$ $P_6 = 24 \text{ W}$ $P_8 = 72 \text{ W}$	$P_4 = 16 \text{ W}$ $P_6 = 24 \text{ W}$ $P_8 = 8 \text{ W}$

4)  $i_b = -16 \text{ mA}$      $i_d = 2 \text{ mA}$      $V_c = 6 \text{ V}$

5)  $R = 28 \text{ k}\Omega$

6)  $R = 60 \Omega$

7)  $R = 18,46 \Omega$

8) a)  $V_s = 5 \text{ V}$                       b)  $I_{\text{fonte}} = 3 \text{ mA}$                       c)  $R = 2 \text{ k}\Omega$

9)  $R = 15 \Omega$

10.1	10.2
$R_{eq} = 16 \Omega$	$R_{eq} = 6 \Omega$

11.1	11.2
$R_{eq} = 9,63 \Omega$ $i_f = 12,36 \text{ A}$	$R_{eq} = 40 \Omega$ $i_f = 2,5 \text{ A}$