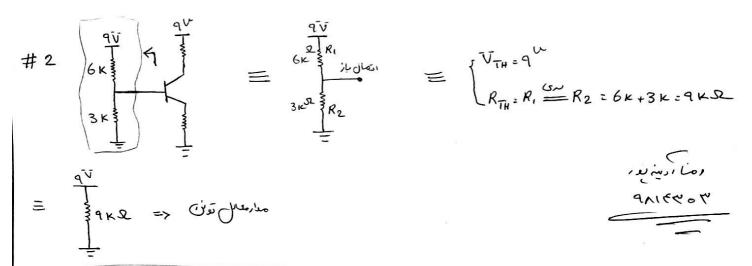
#1
$$V_{in}$$
 R_{s} V_{in} $g_{m}V_{n}$ $g_{m}V_{n}$



#3 a)
$$\frac{2^{\Omega}}{4^{U}} = \frac{4^{U}}{4^{U}} = \frac{2^{U}}{4^{U}} + \frac{4^{U}}{4^{U}} = \frac{2^{U}}{4^{U}} = \frac{2^{U}}{4^{U}} + \frac{2^{U}}{4^{U}} = \frac{2^{U}}{4^{U}} = \frac{2^{U}}{4^{U}} + \frac{2^{U}}{4^{U}} + \frac{2^{U}}{4^{U}} = \frac{2^{U}}{4^{U}} + \frac{2^{U}}{4^{U}} = \frac{2^{U}}{4^{U}} + \frac{2^$$

b)
$$\frac{4^{2}}{20^{1}}$$
 A_{1}^{2} V_{1}^{2} V_{2}^{2} V_{3}^{2} V_{4}^{2} $V_{4}^$

