

LT 1672

10/02/2005

$$= \text{Max } \frac{1}{p} \text{ SIGNAL} = 5 \text{ mV} \times 4.78 = 23.9 \text{ mV}$$

$$\text{GAIN} = \frac{3\text{V}}{23.9 \text{ mV}} = 125.5 \Rightarrow 125$$

$$125 = 1 + \frac{R_f}{R_i}$$

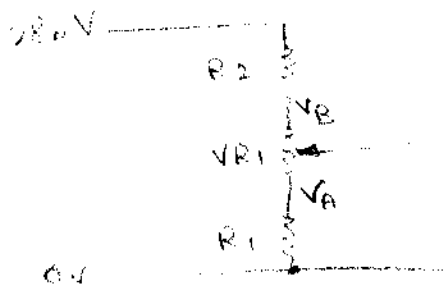
$$124 = \frac{1 \text{ M}\Omega}{R_i}$$

$$R_i = \frac{10^6}{124} = 8064.5 \Omega \Rightarrow 8 \text{ K}\Omega$$

422 - 3810

mv (6) Min 15

7 mV -15



$$V_B = 28 \text{ mV}$$

$$V_B = 17.11\%$$

$$\therefore R_2 = 10 \Omega$$

$$R_1 + V_{R1} = 10 \text{ k}\Omega$$

$$V_{R1} = \frac{11}{28} \times 10 \text{ k}$$

$$= 3928 \Rightarrow \underline{\underline{4.7 \text{ k}\Omega}}$$

$$R_2 = 10 \text{ k} - 4.7 \text{ k}$$

$$= 5.3 \text{ k} \Rightarrow \underline{\underline{5.6 \text{ k}}}$$

$$R_{\text{TOTAL}} = 4.7 \text{ k} + 5.6 \text{ k} = \underline{\underline{10.3 \text{ k}\Omega}}$$

$$V_A = \underline{\underline{15.2 \text{ mV}}}$$

$$V_B = \underline{\underline{28 \text{ mV}}}$$

ALTERNATIVE R_2

$$4.7 \text{ k} = \frac{11}{28} \times R_{\text{TOTAL}}$$

$$R_{\text{TOTAL}} = 11.965 \text{ k}\Omega$$

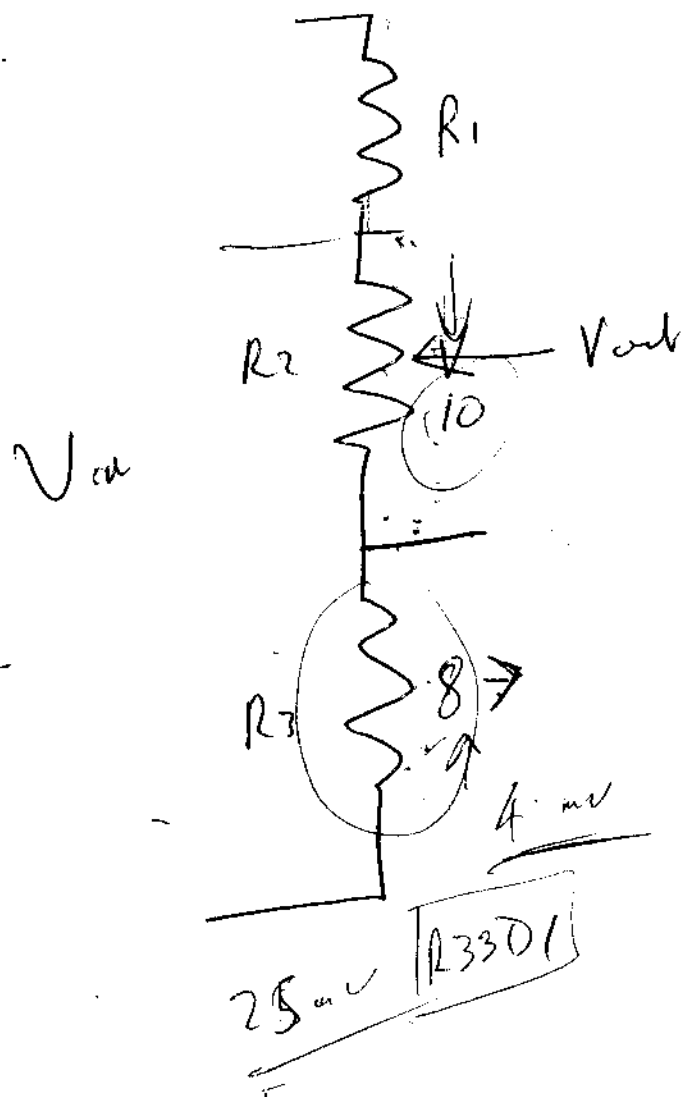
$$R_2 = 11.965 - 4.7 \text{ k}$$

$$= 7265 \Rightarrow \underline{\underline{7.3 \text{ k}\Omega}}$$

$$R_{\text{TOTAL}} = \underline{\underline{12.02 \text{ k}\Omega}}$$

$$V_A = \underline{\underline{17.05 \text{ mV}}}$$

$$V_B = \underline{\underline{28 \text{ mV}}}$$



$$13 \cdot \frac{8}{18} \times V_{in} = 5.78$$

$$\frac{4.87}{12.7} \times V = 2.54$$

$$7 \text{ mV} \frac{18}{18} = 7 \text{ mV}$$

$$13 \cdot \frac{8}{18} = 5.78$$

$$4.8$$

