Problem 1.

Problem2.

$$R_{c} = \frac{9 - 0.7}{Im A} = 83 \infty \Lambda$$

① full scale: 
$$\beta = \frac{0.95}{0.05} = 19$$
② 115:  $\beta = \frac{0.91}{0.01} = 99$ 

Problem 3.

OVI=0V.

Problem 4 (a) V1=0V V2=3V V3=0Y V4=3V 1 by

(a) V1>OV.

$$\frac{V4+3}{43} = \frac{3-V_5}{5\cdot 1}$$