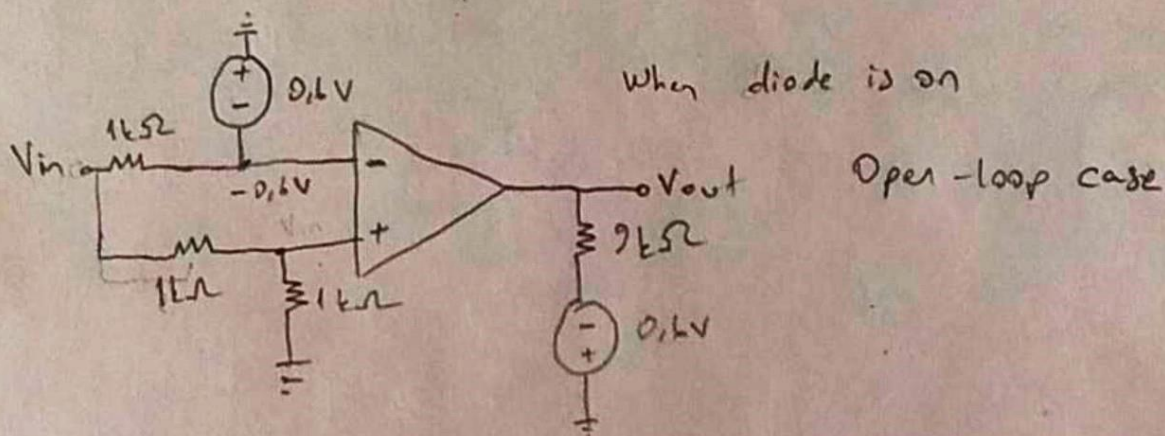
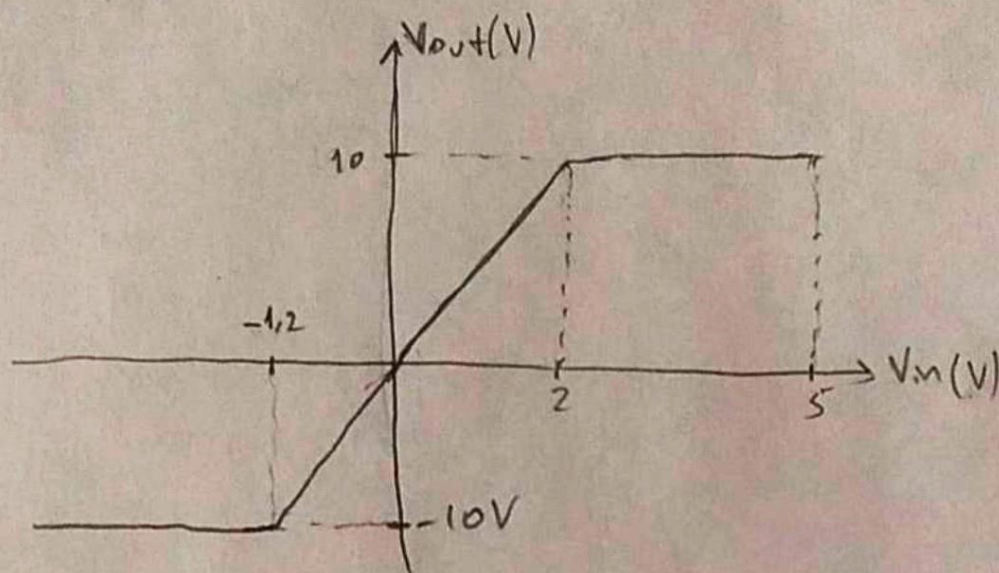


If $V_p \leq -0,6V$, diode is on.



$$\frac{V_{in}}{2} \leq -0,6V \rightarrow V_{in} \leq -1,2V$$



$$V_p = \frac{V_{in}}{2} \quad V_N = -0,6V \rightarrow V_{out} = A \cdot \left(\frac{V_{in}}{2} + 0,6V \right)$$

negative

$$V_{out} = -V_{EE}, \text{ if } V_{in} \leq -1,2V$$