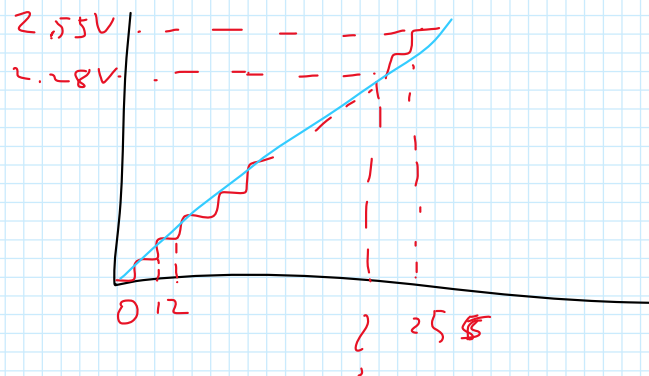


$$V_i = 2.28V$$

$$\frac{A_{\max}}{2^8} = \frac{2.55}{256} = \underline{9.961 \text{ mV}}$$



2. $\frac{1}{2} \ln 2$

$$\frac{9.961}{2} = 4.98 \mu A$$