

$$2n - 2$$

$$n \rightarrow n + 1$$

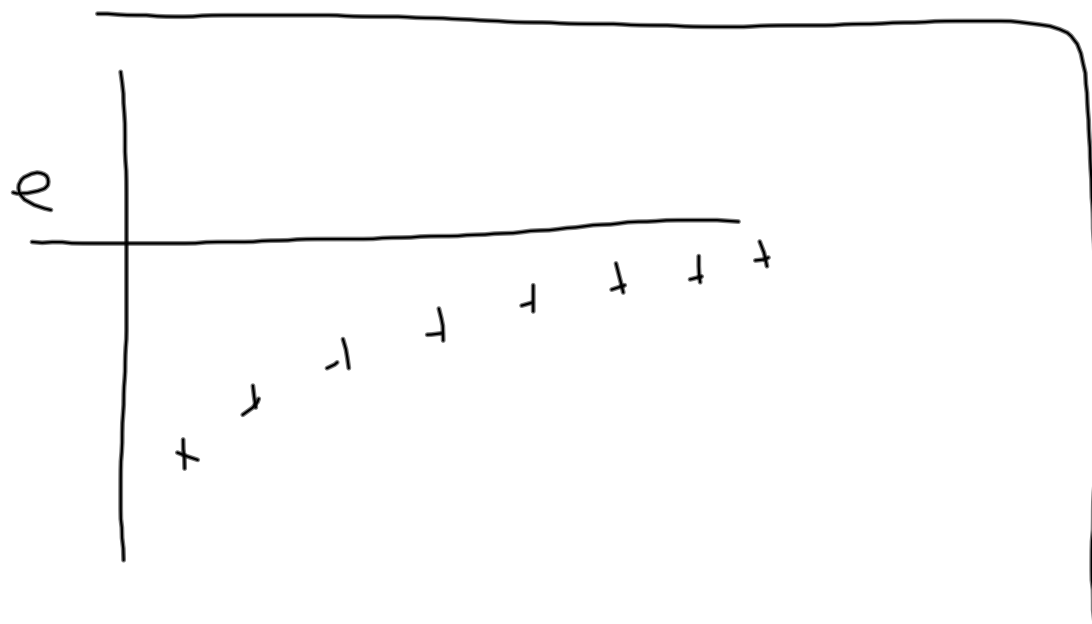
~~$$2n - 1$$~~

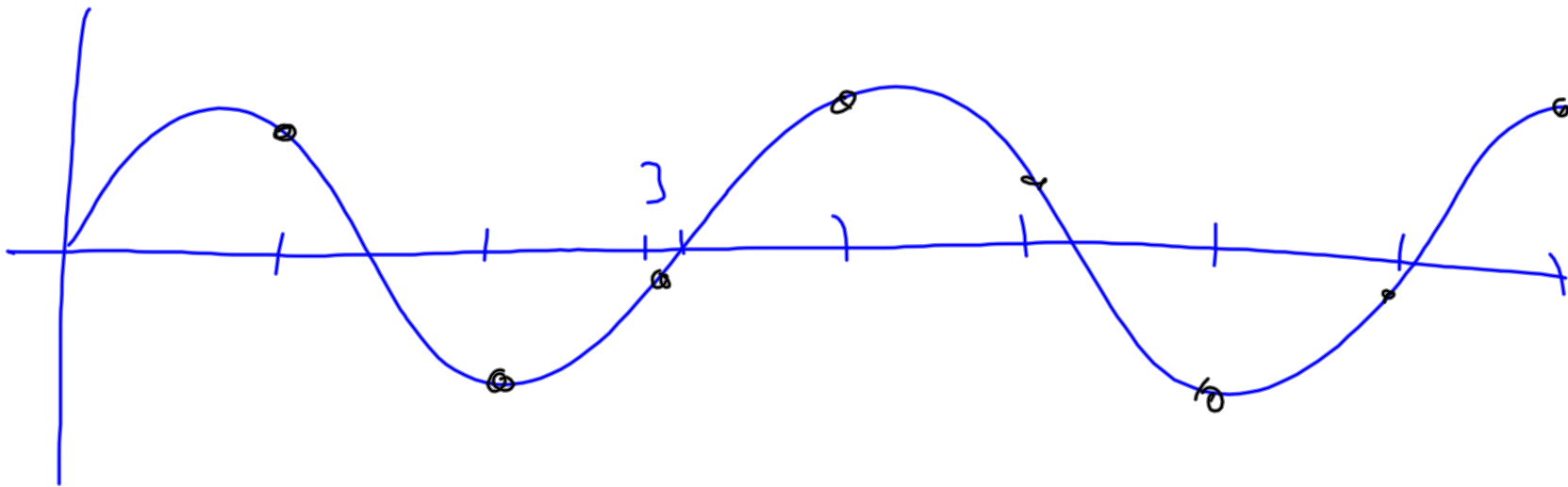
$$2(n + 1) - 2 = 2n$$

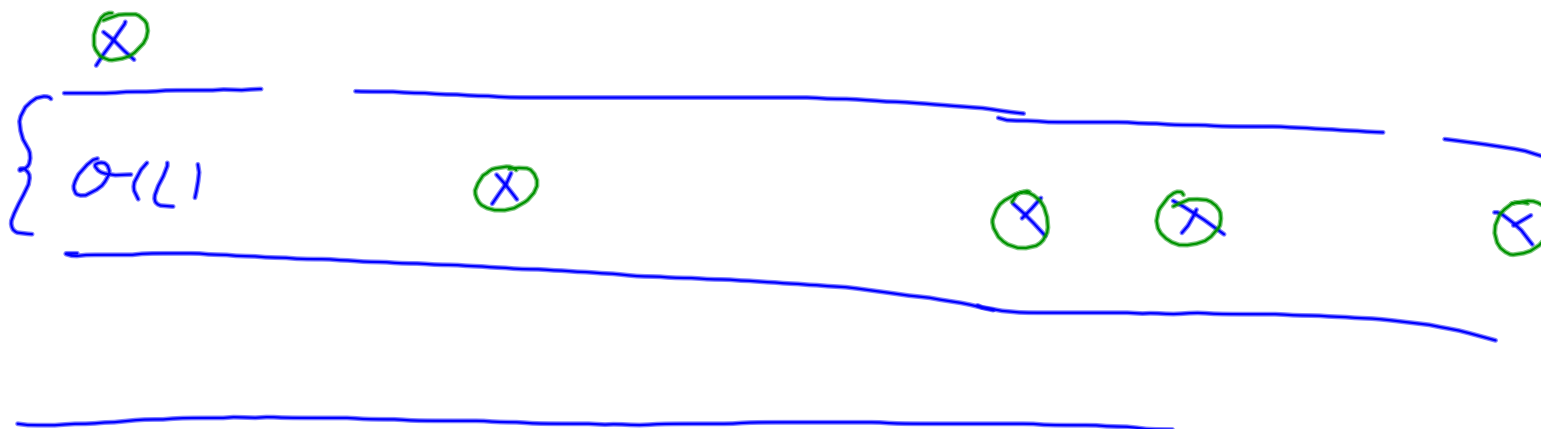
$$X = -\frac{1}{m^2}$$

$$1 + mx = 1 + m \cdot \left(-\frac{1}{m^2}\right)$$

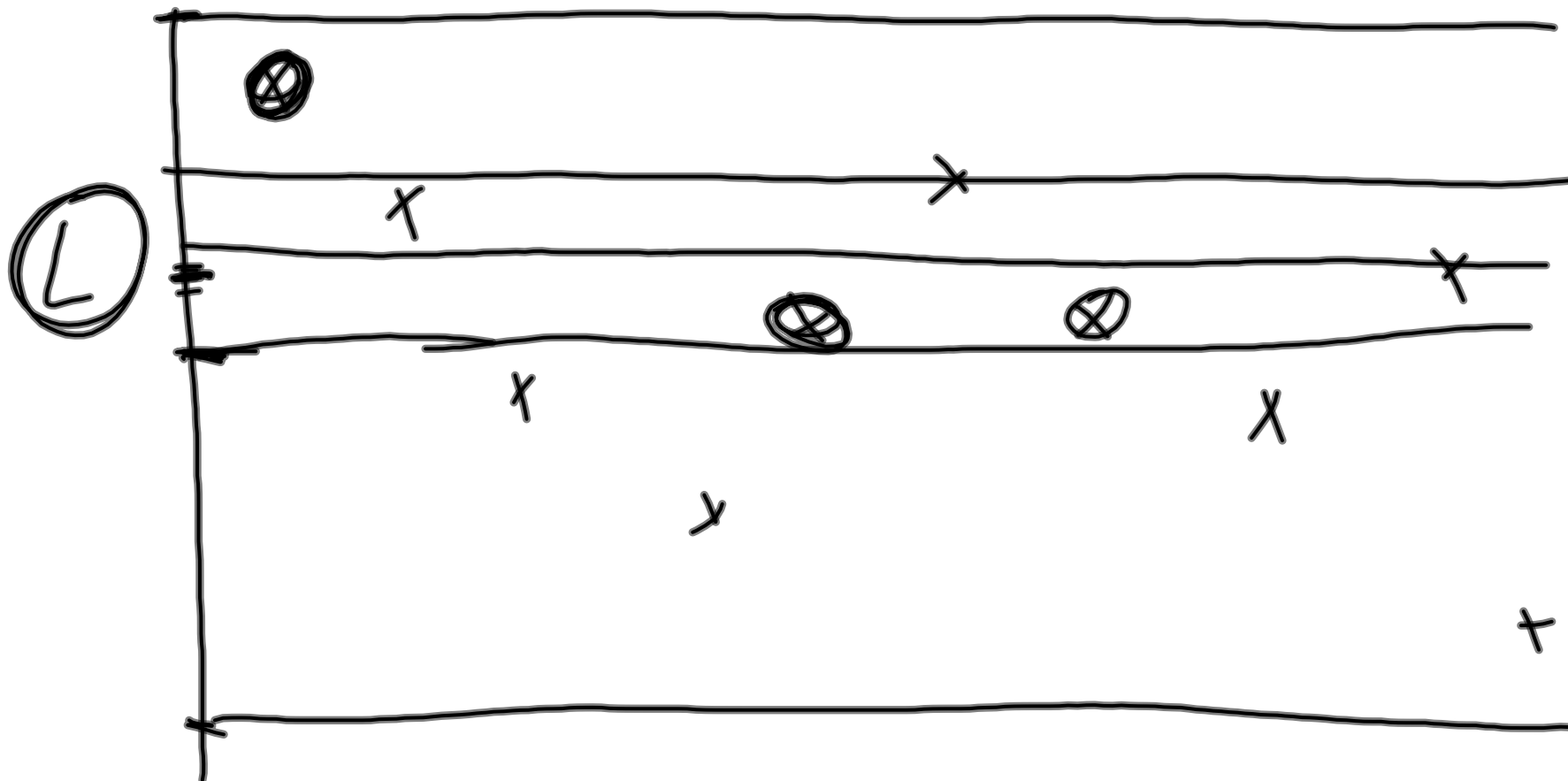
$$= 1 - \frac{1}{m}$$

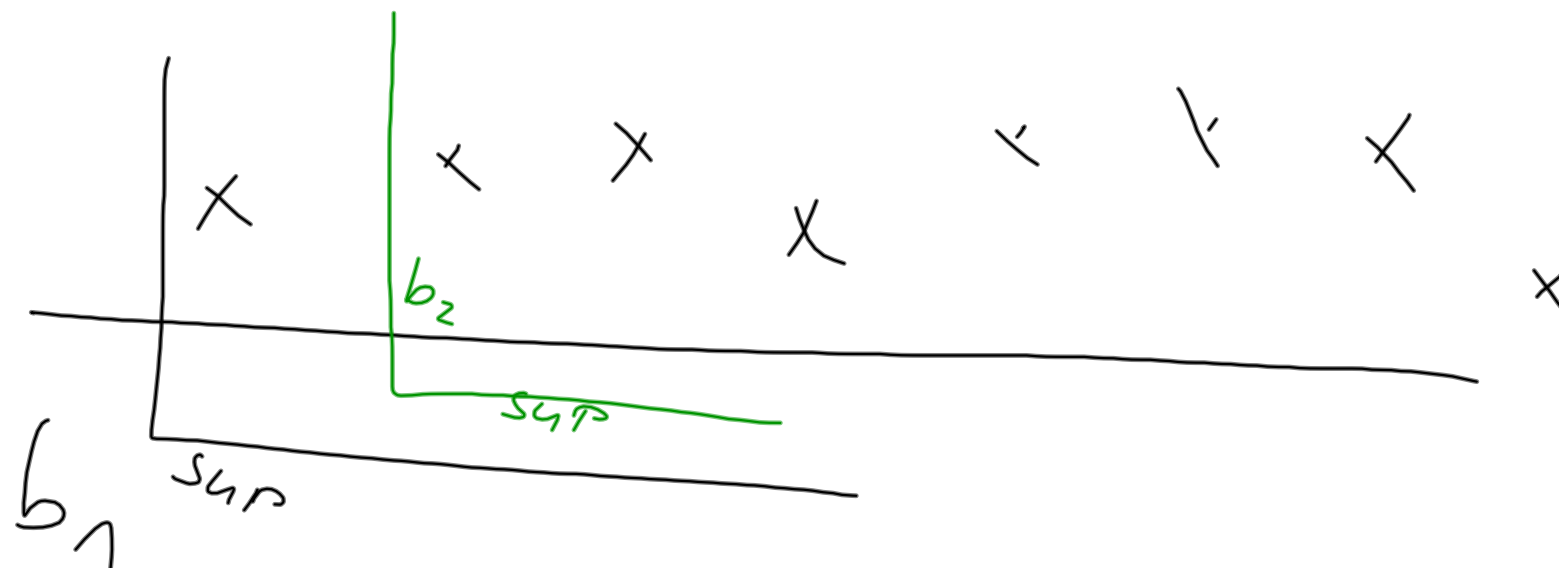


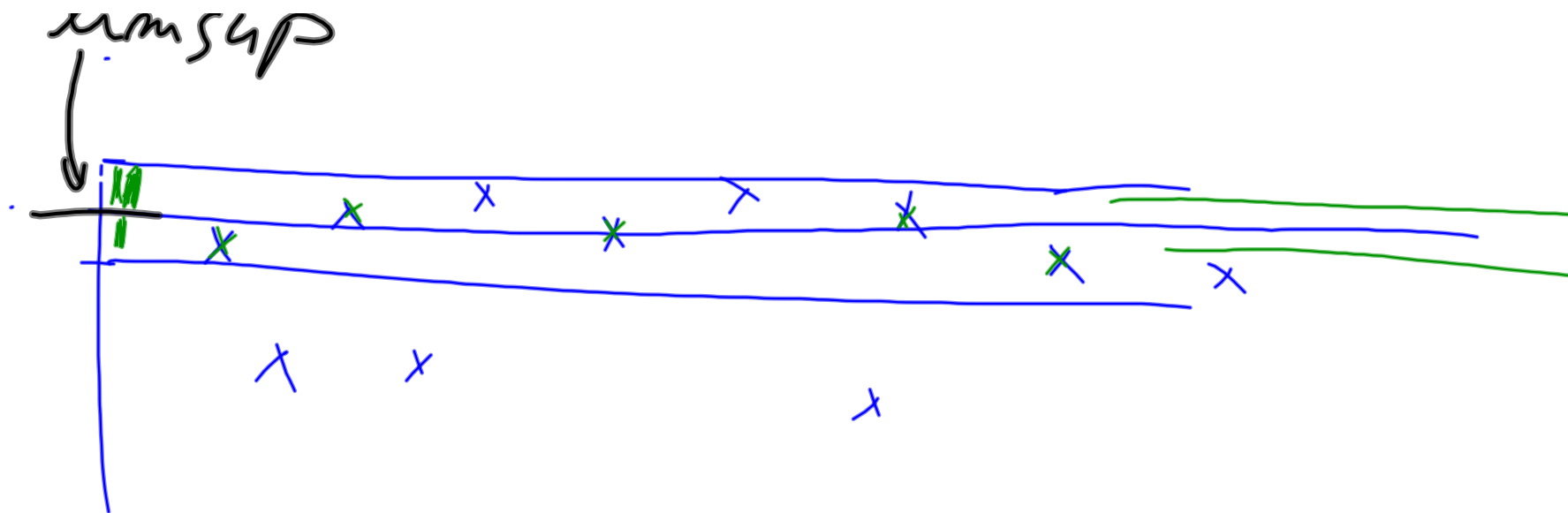


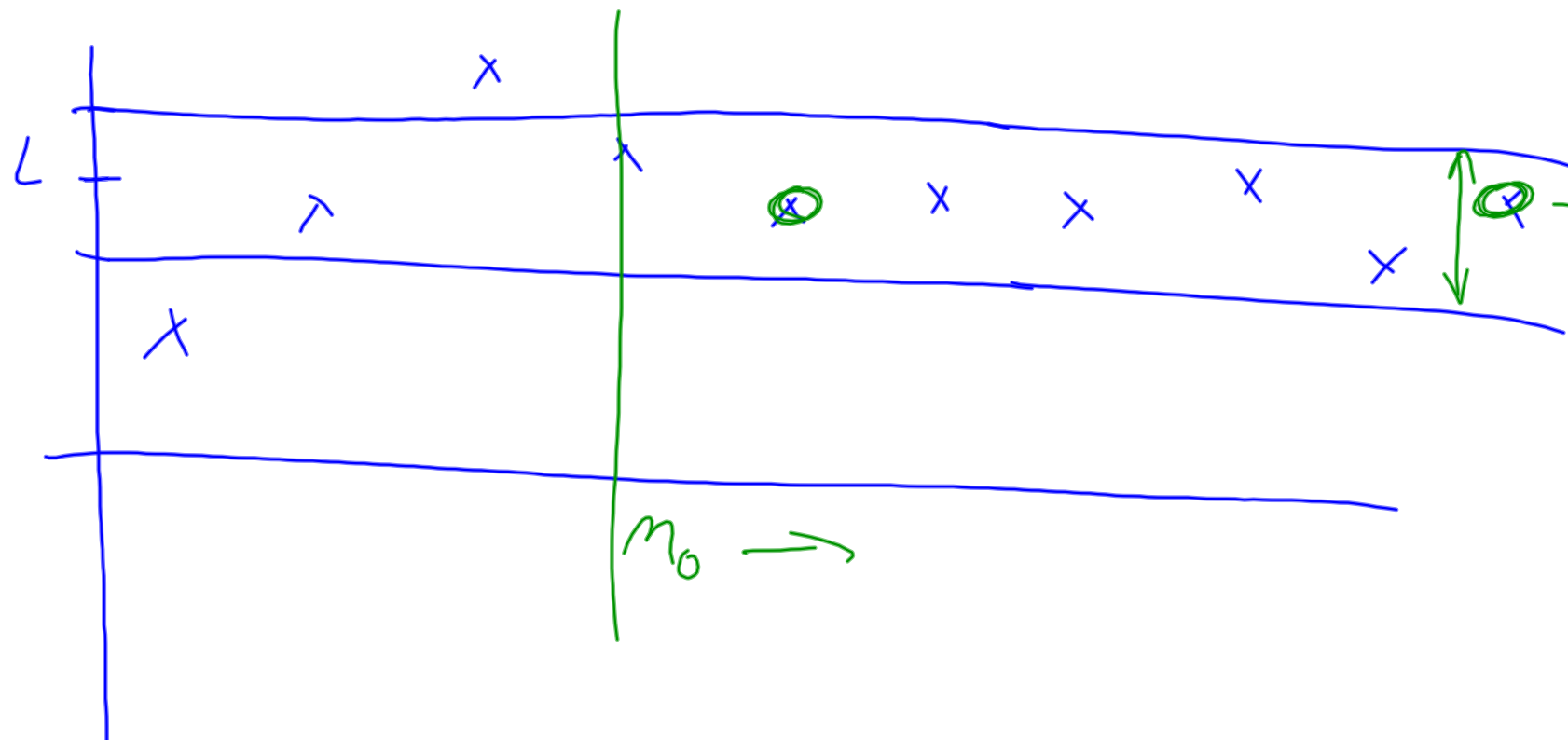












$$\lim_{n \rightarrow \infty} \frac{2^n + \cancel{\ln n} - \cancel{n}^{\text{80}}}{4 \cdot 2^{n+1} + \cancel{\log_7 n^2} + \cancel{n^3}} =$$
$$= \lim_{n \rightarrow \infty} \frac{2^n}{4 \cdot 2 \cdot 2^n}$$

$$\lim_{n \rightarrow \infty} \frac{\cancel{2n} + n^2}{n^3} = 0$$