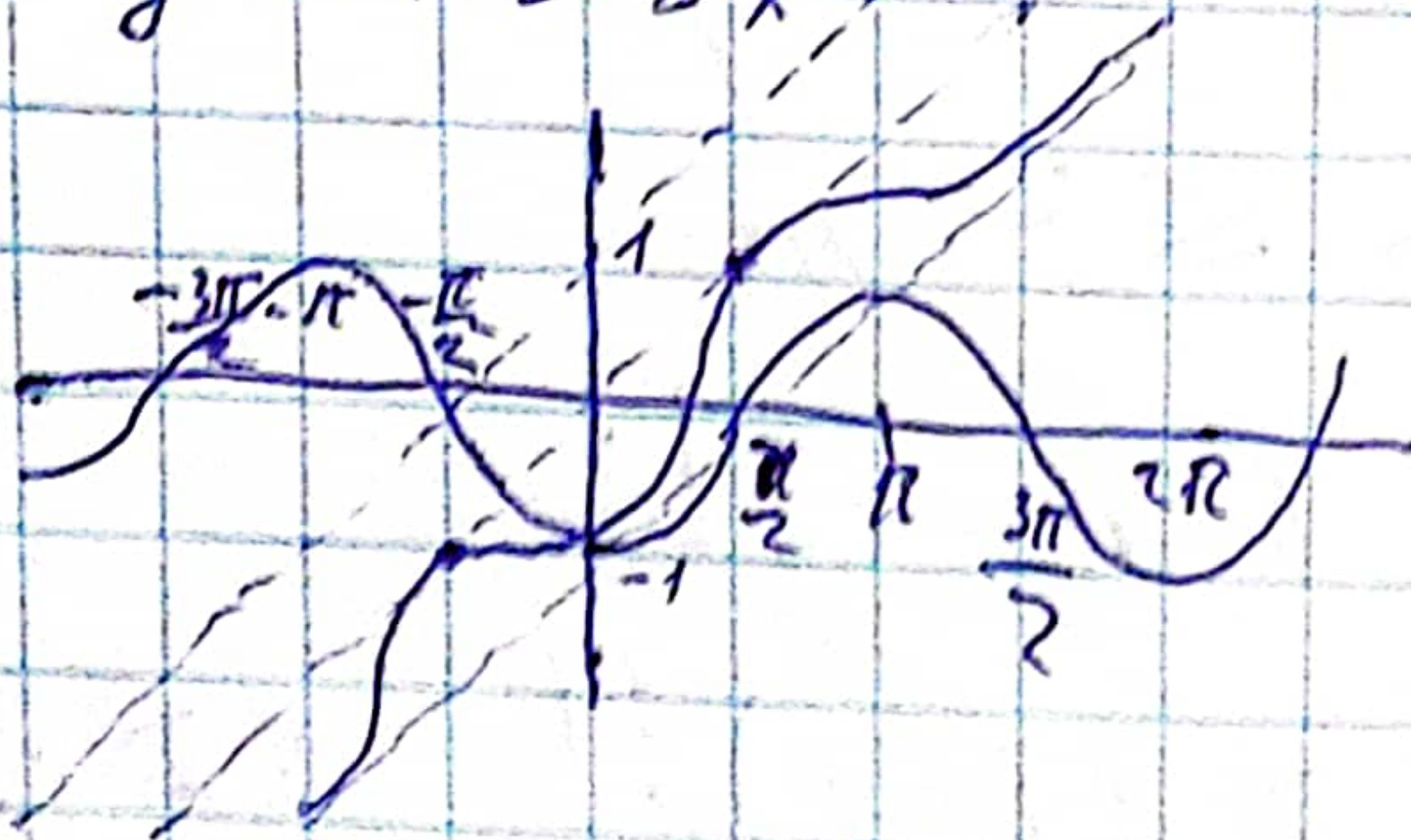
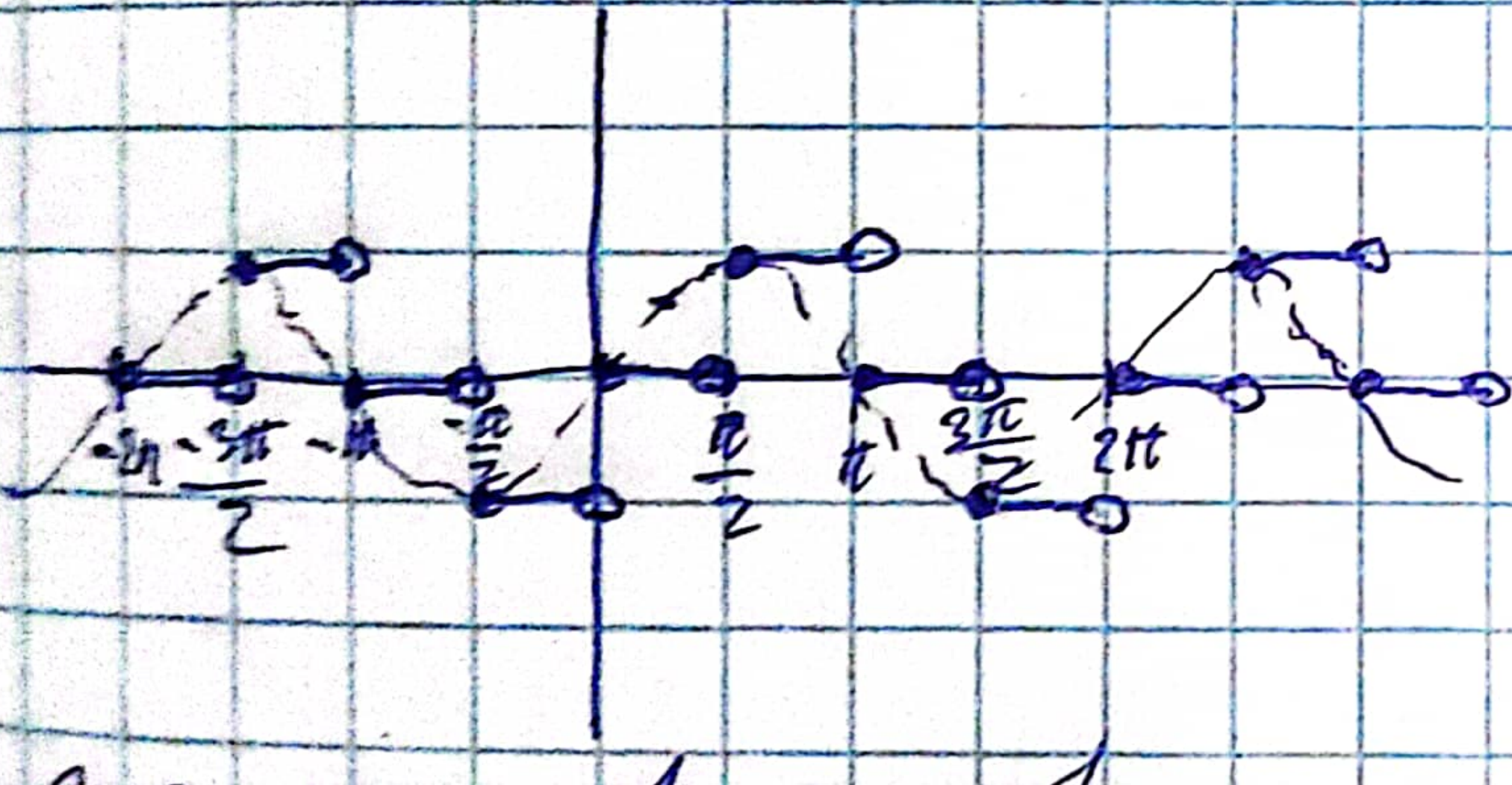


$$2.6 \quad y = x - \cos x$$



2.15 $y = [\sin x]$



$$1.15 \quad n^n \geq (2n-1)!!$$

$$A_1: 1^1 \geq (2-1)!! \quad 1 \geq 1$$

$$A_{n+1}: (n+1)^{n+1} \geq (2n+1)!!$$

$$\begin{aligned}
 & \frac{(n+1)^{n+1} \cdot n^n}{n^n} \geq \frac{(n+1)^{n+1} \cdot (2n-1)!!}{n^n} = \\
 & = \frac{(n+1)^{n+1} \cdot (2n+1)!!}{n^n \cdot (2n+1)} = \frac{(n+1)^n \cdot (n+1) \cdot (2n+1)!!}{n^n \cdot (2n+1)} \geq (2n+1)!! \\
 & \text{Simplifying } \frac{(n+1)^n}{n^n} > \frac{\sqrt{n+1}}{2n+1} \Rightarrow \frac{(n+1)^n \cdot (n+1)}{n^n \cdot (2n+1)} > 1
 \end{aligned}$$