1. Solve $|x - 1| > |x + 1|$.

2. Find the solution set of $\left| \dfrac{2 + x}{3 - x} \right|$.

3. Find the supremum and infimum of the following set

   (a) $\left\{ \dfrac{(-1)^n}{n} : n \in \mathbb{N} \right\}$

   (b) $\left\{ \dfrac{n - 1}{n} : n \in \mathbb{N} \right\}$

4. Find the rational number between $\sqrt{2}$ and $\sqrt{3}$.