

Progressive Education Society's
Modern College of Arts, Science and Commerce (Autonomous),
Shivajinagar, Pune - 5

Department of Mathematics
FYBSc(Semester I)19ScMatU103

Based on Differential Calculus
Subject : Mathematics Practical-I (19ScMatU103)
Practical Incharge: Rima Ahuja
Practical 7:Real Numbers

1. Solve $|x - 1| > |x + 1|$.
2. Find the solution set of $\left| \frac{2 + x}{3 - x} \right|$.
3. Find the supremum and infimum of the following set
 - (a) $\left\{ \frac{(-1)^n}{n} : n \in \mathbb{N} \right\}$
 - (b) $\left\{ \frac{n - 1}{n} : n \in \mathbb{N} \right\}$
4. Find the rational number between $\sqrt{2}$ and $\sqrt{3}$.