## Section 2.2 Absolute Value and the Real Line $% \mathcal{A}$

Let  $a \in \mathbb{R}$  and  $\epsilon > 0$ . Then the  $\underline{\epsilon}$ -neighborhood of a is the set  $V_{\epsilon}(a) = \{x \in \mathbb{R} : |x - a| < \epsilon\}.$