1. By definition, $lim\_{n\rightarrow \infty }a\_{n}=L$ if for every $ε>0, $the re exists a positive number N such that if $n$ is an integer with $n>N, $then $\left|a\_{n}-L\right|<ε$. By taking the negation of this definition, write out the meaning of $lim\_{n\rightarrow \infty }a\_{n}\ne L$ using quantifiers. Then write out the meaning of $\left\{a\_{n}\right\}$ diverges using quantifiers.