

Name:

- [5] 1. Let T , A , and B be subsets of some universal set U .
Prove that if $T \subseteq A$, then $T \times B \subseteq A \times B$.
- [5] 2. For each natural number n , let $A_n = \{n, n+1, n+2, n+3\}$. Determine the elements of
the set $\bigcup_{i=2}^4 A_i$.