Quiz 4: Section 2.2

1. (2 points each) Let $A = \{2, 3, 4\}$ and $B = \{3, 4, 5, 6\}$, and suppose the universal set is $U = \{1, 2, \ldots, 9\}$. List all the elements in the following sets.

(a) $(A \cup B)'$

(b) $(A \cap B) \times A$

(c) $P(B \backslash A)$

2. (4 points) List all of the elements $S \in P(\{1, 2, 3, 4\})$ such that $|S| = 3$.