Name: _____Quiz 3

For problems 1-3, use the sets $A = (1,7)$, $B = [4,10]$, and $C = \{2,7,11\}$.

1) Find $A \cup B$

2) Find $A - C$

3) Find $B \cap C$

4) Let A, B, and C be sets. Prove the statement below.

$$\text{If } A \subseteq B \text{ and } B \subseteq C, \text{ then } A \subseteq C$$