$\qquad$ Quiz 3

1) Given $A=\{1,2,3\}, B=\{2,3,4\}, C=\{1,4,5,6\}$, and $D=\{3,6\}$ find the sets below. The universe is all positive integers less than 10.
$A \cap B=$
$B \cup D=$
$A-C=$
$A^{c}=$
$B \times D=$
2) Let $A$ and $B$ be sets. Prove that $A \cap B \subseteq A$.
3) Let $A$ and $B$ be sets. Prove that $(A \cup B=B) \Rightarrow A \subseteq B$
