

### **Example 1**

**Let**

**A = The game is in Blacksburg**

**B = The game is on ABC**

**C = The Hokies will win the game**

**Use the above symbols to write the following statements in symbols**

- 1) If the game is in Blacksburg, then the Hokies will win the game.
- 2) The game is in Blacksburg and it is on ABC.
- 3) Either, the game is in Blacksburg or it is on ABC.

**Use the same symbols to translate each statement.**

- 1)  $B \rightarrow C$
- 2)  $\sim A \rightarrow \sim C$
- 3)  $\sim A \wedge \sim C$