Given:

- 1. Steve only likes easy courses.
- 2. Science courses are hard.
- 3. All the courses in the basketweaving department are easy.
- 4. BK301 is a basketweaving course.

Query: What course would Steve like?

Predicate logic:

- 1. $\forall x \text{ easy}(x) \rightarrow \text{likes}(\text{steve}, x)$
- 2. $\forall x \text{ science}(x) \rightarrow \text{-easy}(x)$
- 3. $\forall x \text{ basketweaving}(x) \rightarrow \text{easy}(x)$
- **4.** basketweaving(BK301)

The conclusion is encoded as likes(steve,x).

CNF:

- (1) \sim easy(x) or likes(steve,x)
- (2) \sim science(x) or \sim easy(x)
- (3) \sim science(x) or \sim easy(x)
- (4) \sim basketweaving(x) or easy(x)
- (5) basketweaving(BK301)

Assumption: ~likes(steve,x)