Thursday April 1 - #9

Name: _____   Student ID: _____

If a course is easy, some students who are taking it are happy.
If a course has a final, none of the students taking it is happy.
Can you prove that "If a course has a final, the course is not easy"?

1. write the statement and the negated goal in predicate calculus. Choose consistent predicates for the different sentences.

    (a)

    (b)

    (c)

2. translate the sentences to CNF

    (a)

    (b)

    (c)

    (d)

    (e)

3. Use resolution to show the knowledge base is contraddictory, hence the goal is proven.