Math 231 Fall 2003 Quiz 1 (9/4)

This quiz is worth 10 points and you have 10 minutes to complete it. Show all work and circle your final answers.

Calculators are NOT allowed today.

1. (4 pts) Solve the inequality $2x^2 - 7x + 3 < 0$.

2. (6 pts) Suppose A, B, and C are statements such that:

- $\bullet~C$ is true,
- $C \Rightarrow (Not B)$ is true, and
- (Not A) $\Rightarrow B$ is true.
- (a) Prove *directly* that the statement A must be true.

(b) Prove by contradiction that the statement A must be true.