Quiz One

No notes. No calculators.
Simplify your answers. Show your work. Please put a box around \textbf{YOUR FINAL ANSWER}.
There are 15 points on this quiz.

A small airplane is flying slowly near a local airport. The airplane is currently 3 miles north and 3 miles west of the airport. The plane flies in a straight line so that, in 10 minutes, it will be 7 miles south and 2 miles east of the airport. The airport has a radar system that detects planes within 3 miles of the airport.

1 (5 points) Draw a picture of the situation and impose a coordinate system.

2 (4 points) How fast is the airplane flying in miles per hour?
(6 points) Where is the airplane when the airport first detects it by radar?

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Bonus Question (1 point) What are the names of your instructor and teaching assistant?

In what building is the Math Study Center (MSC) located?

Instructor: ____________________________  TA: ____________________________

MSC is in: ____________________________