1. Write the negation of the following statements in words:
a) My mind is made up and you can not change it.  
c) Some people can speak Spanish.

2. Given p: It is broken. q: You can fix it. r: You throw it away, translate the following sentences into symbols:
a) It is broken or you do not throw it away.  
b) If you throw it away, then you can not fix it.

3. Given p is a true statement, q is a true statement, r is a false statement. Determine whether the following are true or false.
a) \((p \land \sim q) \rightarrow r\)  
b) \((r \lor \sim p) \lor (\sim q \leftrightarrow p)\) 

MATH 150 Review Quiz 1

1. Write the negation of the following statements in words: (2pts each)
a) My mind is not made up or you can change it.  
c) All people cannot speak Spanish.

2. Given p: It is broken. q: You can fix it. r: You throw it away, translate the following sentences into symbols:
a) It is not broken and you throw it away.  
b) If you cannot fix it, then you throw it away.

3. Given p is a true statement, q is a true statement, r is a false statement. Determine the truth value of the following compound statements.
a) \((p \lor q) \rightarrow r\)  
b) \((r \lor \sim p) \lor (q \leftrightarrow p)\)