MATH 150 Review Quiz 6A
Name ______________________________

1. Use one of DeMorgan’s Laws to write the negation of the statement in words:
   My mind is made up and you cannot change it.

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

3. Given \( p \) is a true statement; \( q \) is a true statement; and \( r \) is a false statement. Find the truth value of each compound statement.
   a. \( (p \land \neg q) \rightarrow r \) ____________  
   b. \( (r \lor \neg p) \lor (\neg q \rightarrow p) \) ____________

MATH 150 Review Quiz 6B
Name ______________________________

1. Use one of DeMorgan’s Laws to write the negation of the statement in words:
   My mind is not made up or you can change it.

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

3. Given \( p \) is a true statement; \( q \) is a true statement; and \( r \) is a false statement. Find the truth value of each compound statement.
   a. \( (p \lor \neg q) \rightarrow r \) ____________  
   b. \( (r \lor \neg p) \lor (q \rightarrow p) \) ____________