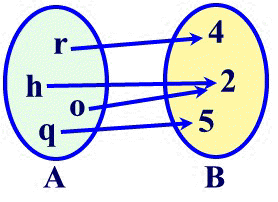
Algebra 2- Unit 5: Relations & Functions Review Sheet #1

1. Classify the symmetry of as even, odd, or neither. Justify your answer.
2. Given . Find the inverse and use compositions to prove your answer.
3. Solve algebraically for y:
4. Michael graphs. He then performs various transformations on his graph and determines a new function . Explain in words what happened to the original function.
5. Determine the domain of .
6. Given and .
   1. Find
   2. Find and .
   3. Solve the equation .
7. Is {(9, 0), (8, 9), (-3, -3), (0, -5)} 1-1? Onto? Explain your answer.
8. Given . Determine the new coordinates after a reflection over the x- axis.

[](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwjG_ZKq7M7JAhUKQCYKHQQGAsAQjRwIBw&url=http%3A%2F%2Fwww.regentsprep.org%2Fregents%2Fmath%2Falgtrig%2Fatp5%2FOntoFunctions.htm&bvm=bv.109332125,d.eWE&psig=AFQjCNEIt9UMiK7z35DrPEj3yYKLmCI6bw&ust=1449752837800684)

1. Given: Determine if this mapping is a function. If it is, determine if it is 1-1 or onto.