1. What English phrase does the symbol $\forall$ represent?

2. What English phrase does the symbol $\exists$ represent?

3. Let $O(n)$ be the predicate statement “$n$ is odd.”
   
   (a) Write the statement “for every integer $n$, if $n$ is odd, then $n^2$ is odd” using predicate and Boolean notation.
   
   (b) Is the statement True or False?

4. For the universe of integers, is the statement $(\forall n \in \mathbb{Z})(\exists m \in \mathbb{Z})(n + m = 1)$ True or False? Explain your answer.

5. For the universe of integers, is the statement $(\exists m \in \mathbb{Z})(\forall n \in \mathbb{Z})(n + m = 1)$ True or False? Explain your answer.