Math 2001: Negation II (Katherine Stange, Spring 2018)

Task 1: Mark if each statement is true or false.
Task 2: Negate each statement.
Task 3 (sanity check): Mark if the negation is true or false.

1. There exists a negative integer which is a perfect square.

2. There exists a real number x such that $x = -x$.

3. Every integer is a rational number.

4. All real numbers are either positive or negative.

5. If $x \in \mathbb{Z}$ is even, then $x > 3$.

6. If $x \in \mathbb{Z}$ is even, then x^2 is even.

7. If $x \in \mathbb{Z}$ is a negative perfect square, then x is prime.

8. All integers are rational and positive.

9. All integers are rational and real.

10. Every integer is either prime or even.

11. Every integer greater than 5 is either odd or composite.