

# Quiz 1

Math 2001-002

Fall 2016

Diagram each of the following sentences. You may use English words in your diagrams, but the more of the grammar of the sentence your diagram illustrates, the more credit you will receive. You may receive more credit for giving multiple diagrams, provided they are all correct. The best diagrams should have negation symbols as deep as possible in the diagram.

**Question 1.**  $x$  is positive, negative, or 0.

**Question 2.** It is equivalent for  $x$  to be even and for  $x + 1$  to be odd.

**Question 3.** 0 is neither negative nor positive.

**Question 4.** There is a prime number that is not odd.

**Question 5.** Every circle is contained in a square.