**For each of the following, determine the output stream for the given input streams.**

**Not Gate**

**Output Streams**

**AND gate**

**OR gate**

**Input Streams**

**1011**

3

1

2

**11110000**

**11001100**

**10101010**

**1010**

**1100**

**1010**

**1100**

**0001**

**10101011**

**Construct a network using NOT, AND, and OR gates as needed that accept the two input streams 1100, 1010 and produces an output stream 0111.**

**1100**

**0111**

**1010**

**1010**

**0111**

**1100**