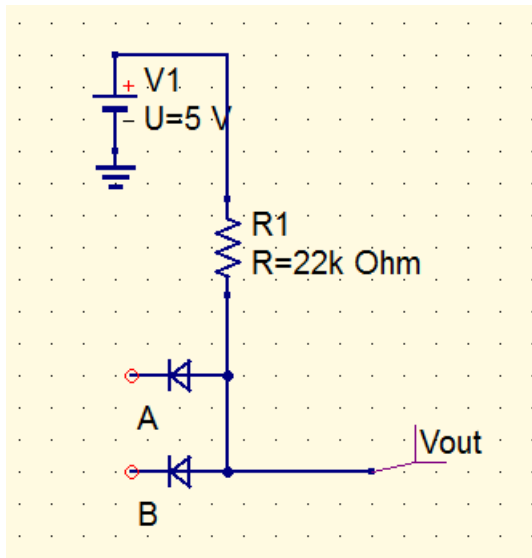


Physics 314
Assignment 1, due Tuesday, Oct 25 2016

Topics: Gates

Problems to hand in:

1) Consider the simple gate circuit below. If you connect 0V or +5V or any combination to the two inputs on the left, what is the output on the right? For each of the input voltage combinations you used, explain physically (that is, in terms of diodes being on/off, current flowing, voltage drops across resistors, etc.) why the voltage output is what you say it should be.



2. What is the output of the circuit below for inputs of 0V and 5V. Explain in detail. What logical function does this represent?

