LAB 7. Create circuit using the AND, OR, NOT gate

**Examples**:

1. Use two pulse wave generators, AND gate and a scope to show the AND operation. For two pulse wave generator, select sample based, configure one pulse generator as amplitude=1, period=2, pulse width=1, phase delay=1. Configure another pulse generator as amplitude=1, period=4, pulse width=2, phase delay=2.
2. Use two pulse wave generators, OR gate and a scope to show the OR operation.
3. Use one pulse wave generator, NOT gate and a scope to show the NOT operation.
4. Prove (A+B)’=A’B’

**Questions: Prove the theorems below are correct. Use one scope with two input port to observe the waveform of left and right side of the equations.**

1. Prove (AB)’=A’+B’. For A, amplitude=1, period=2, pulse width=1, phase delay=1. For B, amplitude=1, period=4, pulse width=2, phase delay=2.
2. Prove X+YZ=(X+Y)(X+Z). For X, amplitude=1, period=2, pulse width=1, phase delay=1. For Y, amplitude=1, period=4, pulse width=2, phase delay=2. For Z, amplitude=1, period=8, pulse width=4, phase delay=4

**Show the result to me, or upload the screenshot of the waveforms to canvas.**