1. Problem

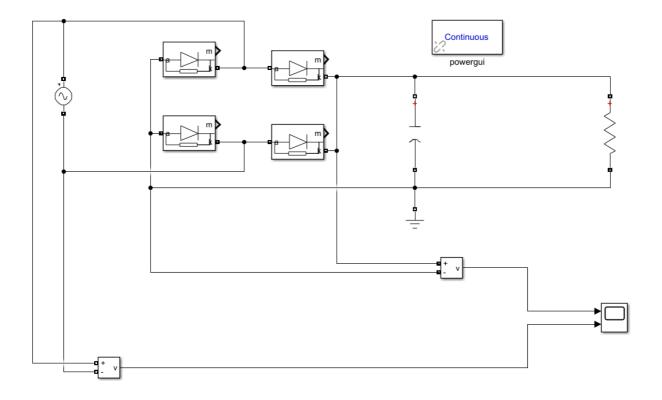
Simulate the full bridge rectifier filter circuit.

Requirement:

- The block diagram
- The appropriate parameters for the element used

1. Solution

The block diagram is shown below:



The waveforms for input voltage (5Vpp, 50Hz) and output voltage are shown below. The forward voltage for the diodes is 0.8V, the resistance is $1k\Omega$, and the capacitance is $100\mu F$. The R and C are such that RC>(3-5)T/2, which is indeed the case $(1k\Omega^*100\mu F=100ms=0.1s=10T/2)$.

