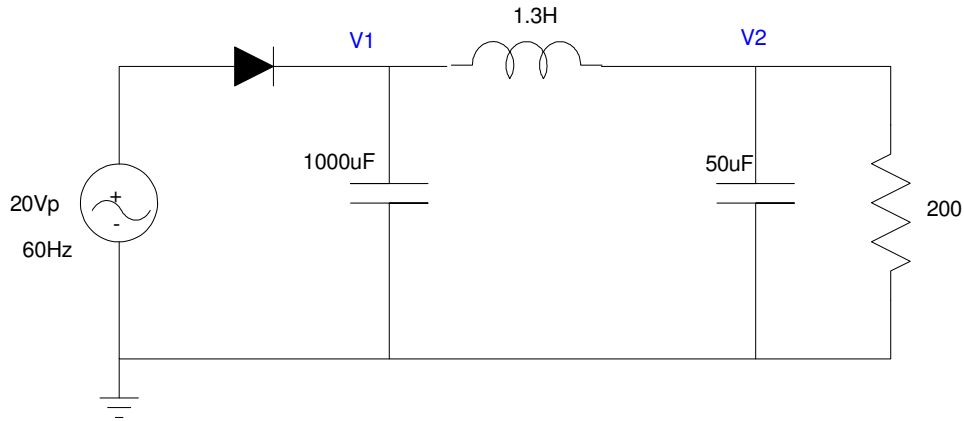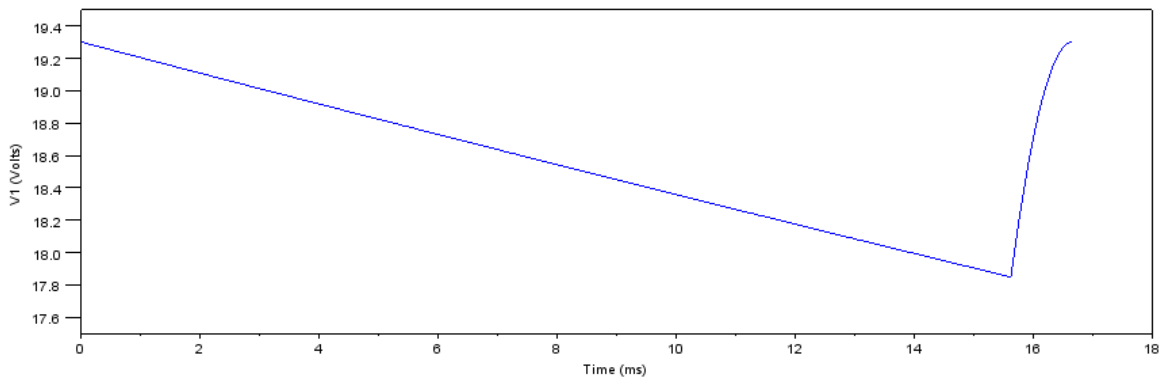# ECE 343  -  Homework #8

Circuit Analysis using Fourier Transforms -  Summer 2018

An AC to DC covnerter from ECE 320 is as follows:



The voltage at V1 is approximately the following:

```
t = [0:0.001:1]'  / 60;
w0 = 2*pi*60;

R = 200;
C = 1000e-6;

V1 = max(19.3*cos(w0*t), 19.3*exp(-t/(R*C)));

-->plot(t,V1)
```



Determine V2(t) using Fourier transforms.