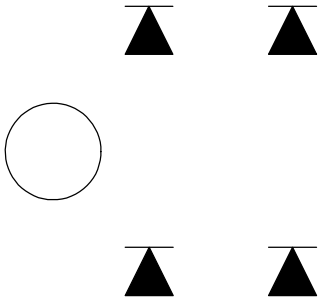
SCR

4) Determine the voltages at V1 and V2 (both DC and AC). Assume

- R = 800 + 100*(your birth month) + (your birth date)
- 17 degree firing angle
- 20Vp 60Hz sine wave as the input

R 800 + 100*mo + day	V1		V2	
	DC	AC (V1pp)	DC	AC (V2pp)
1314	**10.776V**	**25.874Vpp**	**9.353V**	**3.478Vpp**



Fourier Transform

5) Determine y(t) given that

$$x(t) = 24 + 5\sin(50t) + 2\cos(100t)$$

- R = 800 + 100*(your birth month) + (your birth date)

R 800 + 100*mo + day	y(t)
1314	**20.830** **+ 0.022 cos(50t) + 4.340 sis(50t)**

Boolean Logic

6) Design a circuit using NOR gates to implement Y(