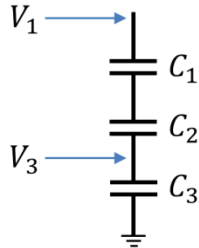
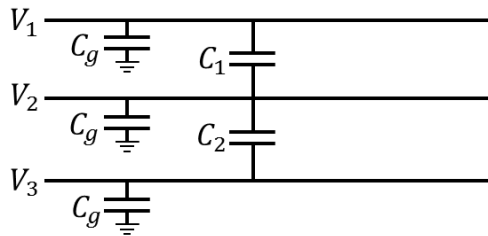


**Homework Assignment 15**  
**(Due 4:10pm, Apr. 16, email to [daehyun@eecs.wsu.edu](mailto:daehyun@eecs.wsu.edu))**

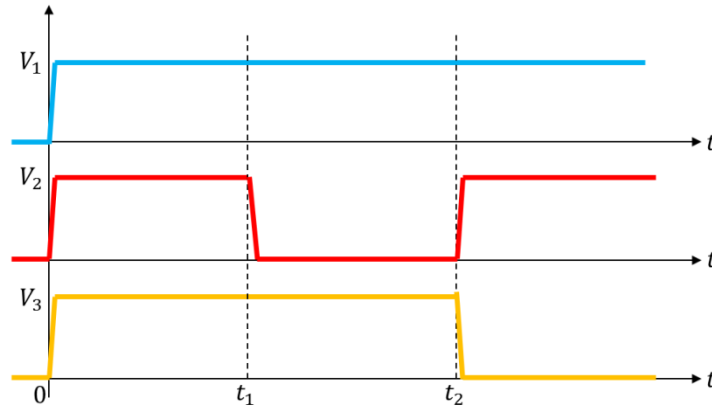
- (1) [Crosstalk, 15 points] Express  $V_3$  as a function of  $V_1, C_1, C_2, C_3$  for the following capacitive network.



- (2) [Crosstalk, 15 points] The following shows three nets and their ground and coupling capacitances.



The following shows the waveforms of the three nets.



Compute the effective capacitances of  $V_2$  at time  $t = 0, t_1, t_2$ .

	$t = 0$	$t = t_1$	$t = t_2$
$V_2$			