

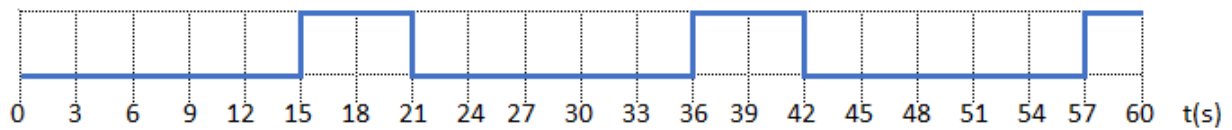
## Homework 9 – Digital Clock

### Question 1 to 3

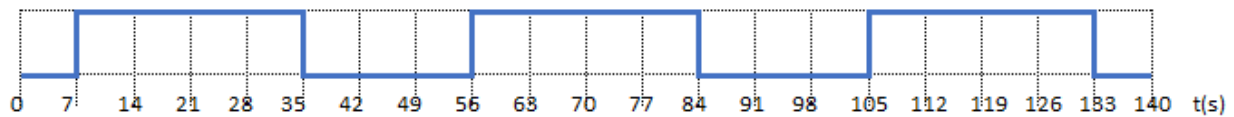
For the following pulse, find:

- Period
- Frequency
- Duty cycle

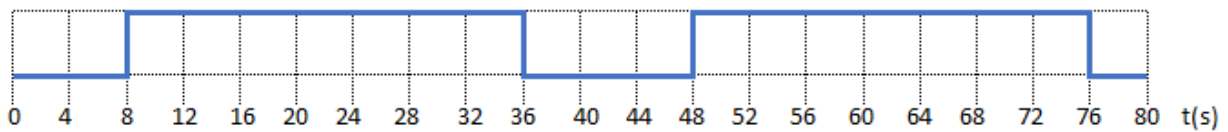
1)



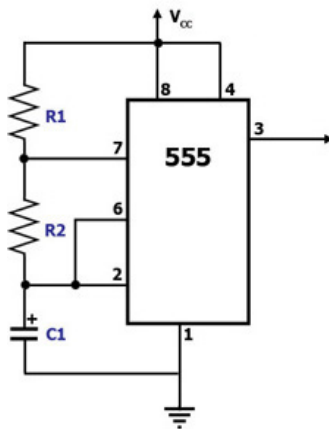
2)



3)



### Question 4 to 6



For the following 555 timer, find:

- Period
- Frequency
- Duty cycle

Given:

- $R1 = 300 \Omega$ ,  $R2 = 150 \Omega$ , and  $C1 = 0.5 \text{ F}$
- $R1 = 160 \Omega$ ,  $R2 = 560 \Omega$ , and  $C1 = 0.01 \text{ F}$
- $R1 = 460 \Omega$ ,  $R2 = 320 \Omega$ , and  $C1 = 0.05 \text{ F}$

----- Homework 9 Ends Here -----