

NAME: OLUKOTUN AHMAD

MAT num: 17/EN602/021

DEP: COMPUTER ENGR

### ASSIGNMENT [3]

#### ① Command Window

2. Clear

3. Clc

4. Close all

5. Syms t

6.  $v = 110 * \cos(120 * P_i * E)$

7.  $c = 100$

8.  $q = c/v$

9.  $i = \text{diff}(q)$

10.  $P = i * v$

11.  $t = 0: 0.01: 0.35$

12.  $v_n = \text{subs}(v)$

13.  $v_{nn} = \text{double}(v_n)$

14.  $i_n = \text{subs}(i)$

15.  $i_{nn} = \text{double}(i_n)$

16.  $P_n = \text{subs}(P)$

17.  $P_{nn} = \text{double}(P_n)$

18.  $\text{Plot}(t, v_{nn} * x)$

19. Hold on

20.  $\text{Plot}(t, i_{nn} * x)$

21. Hold on

(ABUAD), The Road to Intellectualism, Quality and Excellence

22. Plot (t, P<sub>nn</sub>)

23. legend ("voltage (v)", Current (a)", "Power (w)")

24. Grid On

25. Grid Minor