ECE 431 Homework 6

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I ANSWERS

O LOS ALL	
0	Sohan Garajika
9 /2	SO HAMMK2
9	FCF431HWK6
8 6.1)	.5fu = 2c
9	.5 Pu = 25 Pated VA =) Pu & 0° = Va, Ja = Pu & cos (.95) = 1.04 - 18.19°
	En = Va + Jaj25 = 1.25422.34°V S=22.34°
<u>b</u>	Pout = Fa Va Sh(s) = 2.5 sins -> \$=22,34 = .9505
	P
2	-51-
	Az A = Az for Stehn ting
·	95 - 17 10 10 (C 300) 95 (2.75) 50 (C) - 95 ds
	(Se-390).95 = 52.752.584 (S)95 d6
	S=340 Su 71-50 = (-2.560(s)958)
	80
	-252 - 3705 = Se = 1,5983 rell
	= 91.58° V-
9 -	- If you increase to then the cone of higher and on here arose area which while increase &c
	and can have device with proving which introduce of
	- You can also reduce 25 to do the same as abore
6.2)	
	Marp II a H. Strut -
0	if P, = Az then Sthilling on they
(0)	Plud All A = Store (Marp Str(S) - Pland)
	Story Story
•	Soul So Az = Solvand (Pland - Menp Sin (B))

22/46/		0000
6.3)		-
	$df = \omega - 120\pi$	5
	THE STATE OF THE S	5
-	$\frac{dv}{dt} = \frac{d^2 f}{dt^2} = -2 \sin(6) - \frac{1}{2} 6$	5
	1 2 2 9 00 1	6
<i>b</i>)	16 = -2 Sh (6) > 8 = -3.05 mod 3 At equilibrium	6
	w=1202	6
		6
		9
		0
		9
		0

```
# -*- coding: utf-8 -*-
"""

Spyder Editor

This is a temporary script file.
"""

import scipy as sc import numpy as np

def xfrange(start, stop, step):
    i = 0
    while start + i * step < stop:
    yield start + i * step
    i += 1

w = 120*sc.pi

dd = w - 120*sc.pi

dd = w - 120*sc.pi

dd = np.arcsin(-.6/2)

dw = -2*np.sin(d)-||

for i in xfrange(0, 0.006, .001):
    print("At t = "*str(i)*" Delta = "*str(d))
    print("At t = "*str(i)*" belta = "*str(dd))
    print("At t = "*str(i)*" belta / "*str(dd))
    d= d-.00!*dd
    d = w - .00!*dd
    d = w - .00!*dol dd
    d = w - .00!*do
```