	*	
	Physics IB HW #9	
10	24.13) C2= 34F	C) (= 8, 5
	y=n×.	$C = \xi_0 \left(\frac{\Delta}{0.0044h^2} \right)$
	Vz=mV	C= 2.87×10-"
	V= &	$U = \frac{1}{2}CU^2$
	V= Q Q = M Q C2 = M Ce2	U=4.59×10-73)
	t= 0.650 (t++)	
	0.35 = - (0.650)	25.11) r=0.800nn=8x10-1n
	C1=5.6×10-6F	£= 12V
	512 3,0110 1 3 A 7 A	$I = r(\frac{1}{a})$
	24.21) Tegi- ti+ti+ti	m=600Am
	a) Ceg = Cegit Cu+ Cg	JA=n(3) X
	Can = 5.3 nF	
	Cer = 17.3nF	E=IR
	6) Q = CegV	$R = \frac{40}{9}$
	0=1124 (SZN) 1 (9	E= I(\frac{\partial}{\partial}) I=3
16	Q=482.350C)	$I = \frac{\xi A}{\varphi} \left(\frac{1}{0} \right)$
0	c) Q=CyV	2A = 600 Am 1) 1 = 1
	Q=(6.5 NF)(25U)	A= 2.01×10-6m2
	Q = 162.5 nC	8=4.02×10-82m
	0) Paixile > V is constant	in year will not
	1V=25V)	25.20) R= 90
		9n= 2.75×10-852m
	24.64) Q= 12.0cm= 0.12m (Pen= 1.72×10-82m
	D= 4,5m1=0.0045m	8=2,04pm=0,00234m
	K= 5,4	A=4,7×10-6m
	V=18.0V	R=0.00642
	a) car C1+C2 11 1	0.00640 = Pend
		0.0064 A = Sca
	P= 0.014/m2 C= 2. = 2.0 (0.0045m)	A= 7.69×10-6m2
	C=1,42×10~1 F	r= 1,85mm
	C= (,42×10 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 =	
	Cez= 6.23×10-"F	
	2	
	6) U= 2 CV2	
	U= 1×10-87	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

25.76) I=4A	25.42) V=3.70V
VT = 21.2V	U= 3.10×104 J
a) VT = 8 - Ir	t= 7hr = 25200sec
21.2V = 24 - 4A(r)	P=Vay(I)
r= 0.72	=P=Vas(I)
b) V=IR	T=0.33A
21,2V = YA (R)	640 2 . St. A
R=5.32	25,49) 1,0×101 frece -/m3
(8)	a) $f = \frac{m}{ne^2} \tau$
25.29) Vrending ->, 3.08U	9s: = 2300 Am
Vicedos -> 2.97V	n=9.1×10-31kg=200
A 111ding -> 1.68A	c= 1.6×10-nC
a) Vab = 3.08V	2300sm = 9.1×10-11/2
Vas= E-Is	T= 1,55×10-12,
Val. = 2.97V I_= 1.689	b) 9~ ±
I=1.68\$	nen>>> ns.
I;= \$.\$6A	(17,94)
Vas = 8 /3.76(F) = 1	
Vas = 2-168(1)-50, H= 1)	25,69) r=5.10cn=0.0510m
E = Val. 13/36(r)	h= 3,50cm=0,035m
- Xale-8	V=10V = &
Ex Val. + 3.36 (Val 8)	R-162
-8 = Val: - 2 Val	G) I= 4840A = 0 484A
Ji=O	Rez=Rs+R
: (E=V05=3,08U)	$R_{1} = \frac{yL}{A} = \frac{s.L}{sA}, A = 0.0082m^{2}$ $R_{3} = 26.78 \pm$
b) Nab= E-Ir	Rs= 26.78 =
277V= J.08U-(1.68A) F	Rez= 26.98 = + 1652
(r=0,065.R)	V=IRa
c) V=IR	= 10V = 0, 484 p. Rev., Paj = 20 662
2.97V=1.C8A(R)	S= 5.79 ppt)
R=1.77.12	1) (= 125 Y= 10
	Y= 20
	(= 2.07×10-12 F)
	C= 1,67×10-10 F
	V=V;-I,R;= (OV-6,447A)(162)

