- DUE 9/01/2) 7 homas CROW 3,4,6,8,13,21,22,23,41 Homework EET 110 Chapter 2 3) How many C in 50 x/03/electross C= 6.242 × 1018  $\chi = \frac{50 \times 10^{31}}{6.242 \times 10^{18}}$ X= 8.01 x 1013 4)  $C = 6.242 \times 10^{-12}$  $\text{Micro} = \mu = 10^{-6}$ Charge of an electron
1. b x 10-19

 $\frac{60 \times 10^{-19}}{1.6 \times 10^{-19}}$   $= 50 \times 10^{13}$   $= 5 \times 10^{19}$ 

#6

500 J 
$$V = ?$$
  $V = \frac{W}{Q}$ 
 $V = \frac{500}{100} = 5V$ 

#8

 $V = \frac{W}{Q} = 5V$ 
 $W = 12*2.5 = 30$ 

I-100mA

By definition, a current

Source produces a constant

Current with varying load.

So if R=500n/I=100mA)

a) RED, violet, orange, gold = 27×103 = [27ka±5%] b) Brown, gray, red, silvet
[1.8 x 102]
[1.8 KOT 10%] c) Brown, red, brown, gold

12 x 10' = [17052 + 5%] D) orange, blue, red, Silver
36 x 102 = [3.6 \ \Q \ \ \ 10%] ZZ) 25,650 = 28,350 = 28.35 KJ B) 1620 1980 1.62 KM C114 114 126 D)

3240 J3.24 L2 3960 J3.96 K2 23) H-band 5% Tolerance

9) 330 St Orange, Orange, Brown, bold

b) 2.7k ~ Red, Red, Red, bold

C) 56ks breen, Bluc, orange, bold

d) 100 K ~ Brown, Black, Yeven, bold

e) 39 Ks orange, white, orange, gold

39)

