```
physics flood from medoulg
  la) &= 4, E0 ==
                                                                                         2×10-3 = 1 = (Trio-5)
     E = 2 , 0 -3
            E = 6.08 × 10 -3 -> 8 × 10-5 %
 16 E = 42 60 R2
   9 = 100 = 400 = 100 = 400 = 100 = 400 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 100 = 
                                                                             E 24/2 80 122
9=3HC
                                                                                      5- BP103 + 3010-6
                                                                                       2 = 24× 10 - 1/6
 a = 4 310 16 kg
 2 = field = 6131.25
               change = \eta

\eta = \eta = 7 = \frac{22}{2} = 4 \times 10^{-16} \times 9.6 = 6.59348 \times 10^{-11}
                                                                       n=3.7159x 4 sectors
               2 = N
26) 2=2-C=4.777474845 x10-7 65(PE) -2'2
m'=m-m=3c 40x10-14 = 1.739 x10-15
       m = m = m = 3 40x10-14
                           m= =1.1210-31 kg
                           Fg = mig = 9,72=10 %
```

0

031

2) \( \xi = \frac{1}{4\infty} \frac{1}{4\infty}

3-1 C=20A = 8.55 x 10-42 x 10-4 - 4.425 x 10-13 F

A = 1 cm 2

1=5 V

36) Engy = 1/2 CV2 = 1/2 × 4.425 ×10-13 p25 = \$55.31×10-139

Yal for more capacitones we should connect the Idetroal copacitors in porrelled, because capacitones guts added up in parallel combination.

161 Cuct - 6, + (== 20 4.425 ×10-13+4.425 ×10-13 = [8.65 ×10-13]

1/4) In = 2 = 2 = 15V

TE = 1-5V

TE = 1-5V

TE = 1-5V

- Ez +IRz +Irq - Ej + Enzo -1.5 + t (r++rz+R)-1.5v = 0 1 = 9v + + 2+2-50 - 24 = 55.56mH

16) Phon = Pri + Prz + Pr = I = 1 + I = 2 + P = r = 55.5 mA = 2 + (55-6 mp 1 2 - 2 + (55.56 mp 1 2 - 80) = 617 mW + 6-17 mW + 154.34 pw =

= 277.51 mw R = Pr= 164.34 mw

possed = Pr1 + Pr2 + Pr =21° r + F= r + F2r =(15m)2 (45m m) ·2 r(30 m)2 = 50 = 6.45 mW + 0.45 mW + 45 mW =145.7 mW r =120 = 27° r -(50m)2 · 50

2 Pulse with = zes - 715-05

26 = 20 - (-75 1 30 +25 = 105 N = V pen - Fere

Il I would take approximety 20- zeros for the signal is hard from the tou 10 the 3pml Coul