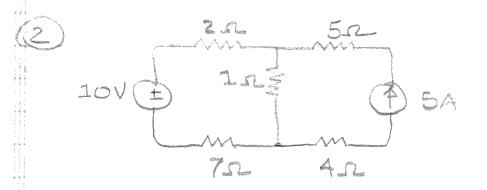


2/16/10

FIND THE THEVENIN VOLTAGE AND
THE MAXIMUM POWER TRANSFER FOR
THIS CIRCUIT.

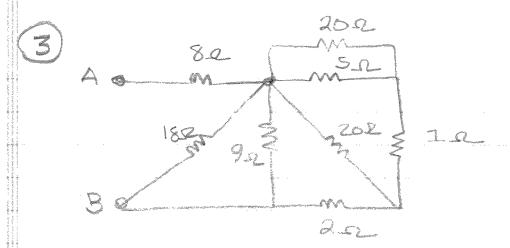
- A. 20V \$ 10.0W
- B. 201 \$ 6.66W
- C. 10V \$ 3.33W
- Ð. 5V § 1.0W



ANALYSIS

FIND THE POWER SUPPLIED OR DISSIPATED BY THE IOV SOURCE

- A. IOW SUPPLIED
- B. SW SUPPLIET
- C. SW DISSIPATED
- B. 2.5W DISSIPATED



FIND THE EQUIVALENT RESISTANCE OF

A 832 B, 655 C. 225 D. 11.

A SOLID COPPER CONDUCTOR AT 20°C HAS

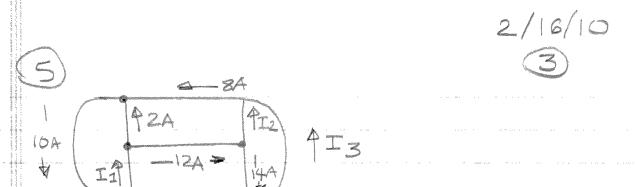
THE FOLLOWING CHARACTERISTICS.

RESISTING IN 1.77X10 -8 D.m., diameter = 5mm,

AND LENGTH = 5000M. WHAT IS THE

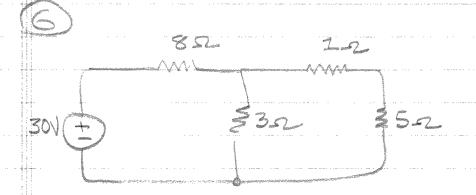
RESISTANCE OF THE CONDUCTOR?

A. 0.017.2. B. 45.2. E. 12.2. D. 18.2.



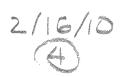
USE KCL TO FIND ITS IZ

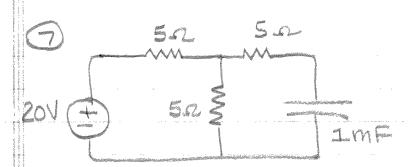
A 14A \$ 2A B-14A \$ 2A C 14A \$ -ZA D 10A\$ -ZA



PESISTOR?

A. 4A B. 3A C. 2A D. 1A





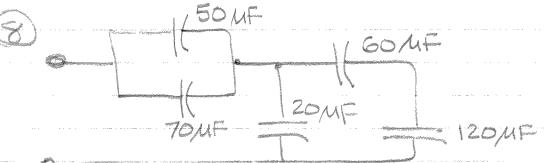
CAPACITOR. THE CIRCUIT IS AT DC

A. Zoom Joyles

B. 67m Joules

a. 50m Jours

D LOOM Joules



THE TERMINALS OF THE CIRCUIT

A. 20.9MF

B. 40UF

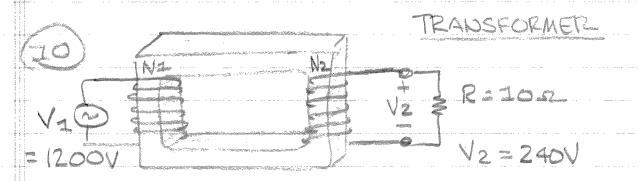
C. 120ME

D 320MF

## 9) NS (3.5 MF) NS = 100 (377t-90°)

CIRCUIT?

A. 1001 + 3.5MF + 2H B. 100 + J377 AL C. 1001 D - 1744 AL

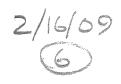


TRANSFORMER HAS SOO TUROS, AND
THE VOLTAGE ACROSS THE SEZONDARY COIL
IS 240V, HOW MANY TURNS DOES No HAVE
A 200 TUROS
B. 200 TUROS

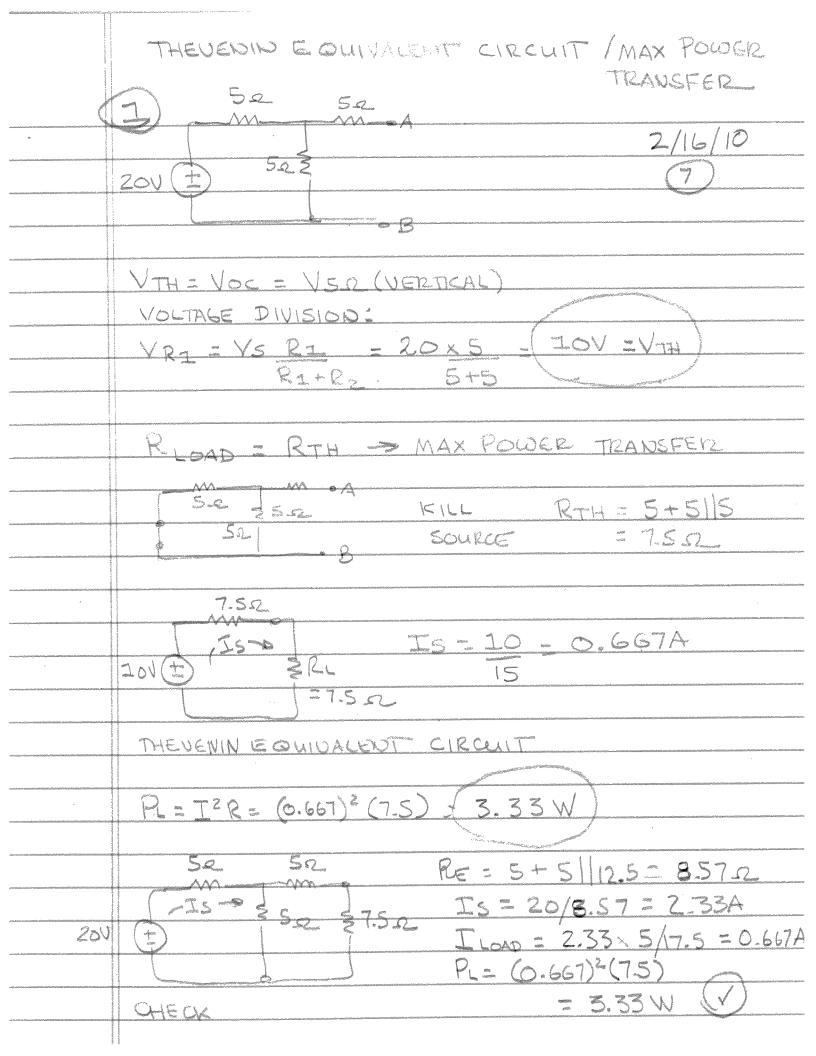
C. 500 TUBUS

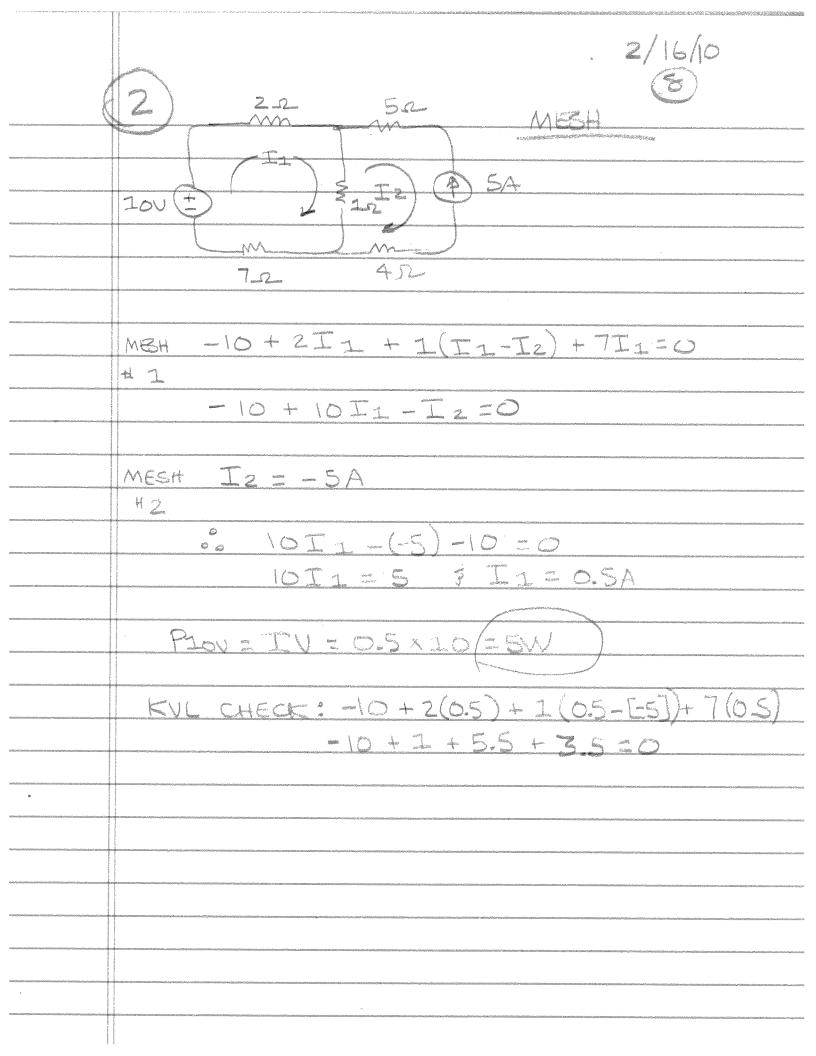
5 1000 TURES

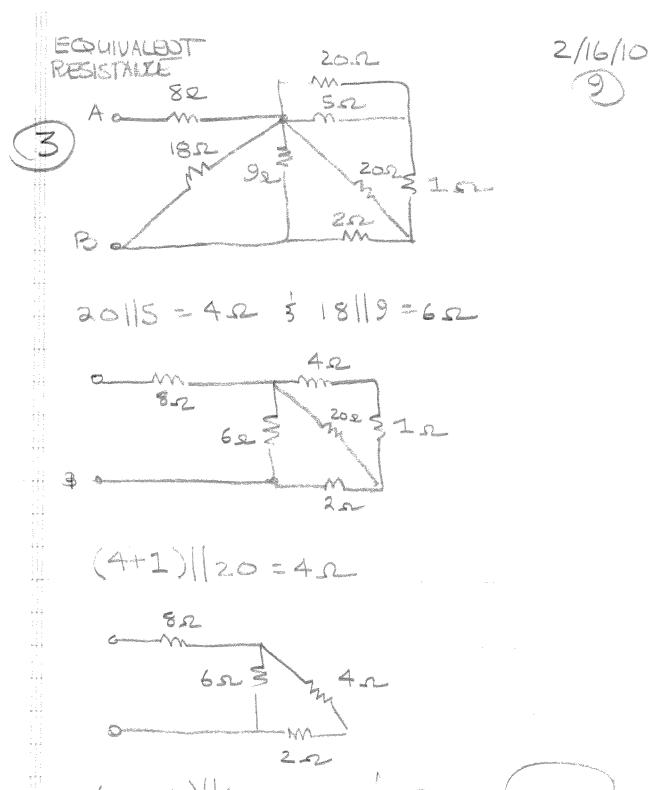
2/16/10 CE MOCK F.G. ANSWELL KEY



SEE PP 7-12 FOR DETAILED





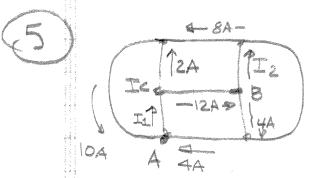


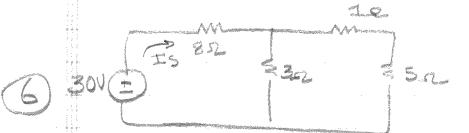
(A) COPPERLUIRE : USE R= PR/A

$$R = (1.77 \times 10^{-8} \Omega.m) (5000m)$$

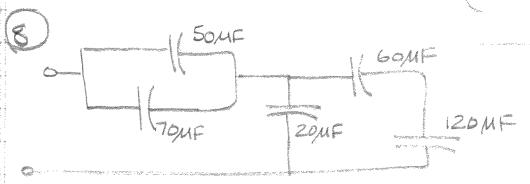
$$T/4 (5mm) = 10000mm)^{2} = (4.51.2)$$







CULTANT DIVISION



2/16/10 100000 (3776-90°) (3) 3.52/UF VOLTS 1002

ZC= 2 = 3 = 377\(\frac{3}{3}\(\frac{3}\(\frac{3}{3}\(\frac{3}\(\frac{3}{3}\(\frac{3}{3}\(\frac{3}\(\frac{3}\(\frac{3}\)\(\frac{3}\(\frac{3}\(\frac{3}\(\frac{3}\)\(\frac{3}\(\frac{3}\)\(\frac{3}\(\frac{3}\)\(\frac{3}\(\frac{3}\)\(\frac{3}\(\frac{3}\)\(\frac{3}\(\frac{3}\)\(\frac{3}\(\frac{3}\)\(\frac{3}\(\frac{3}\)\(\frac{3}\(\frac{3}\)\(\frac{3}\(\frac{3}\)\(\frac{3}\(\frac{3}\)\(\frac{3}\(\frac{3}\)\(\frac{3}\(\frac{3}\)\(\frac{3}\(\frac{3}\)\(\frac{3}\(\

ZL= JUDL= J(377)(2) = +754 &

ZEQ = 1001 - J75412 + J75412 - (10012)

THIS IS CALLED A
RESONANT CIRCUIT

V2 N2 240 500

N2 = 500 (240) = 100 TUILLES