

IDP Questions Creation

Name:

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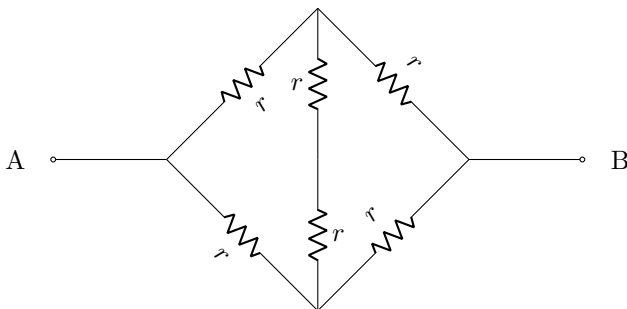
Code : ZTQUQZQEYY

Scan/click for YouTube playlist
to learn solving these questions.



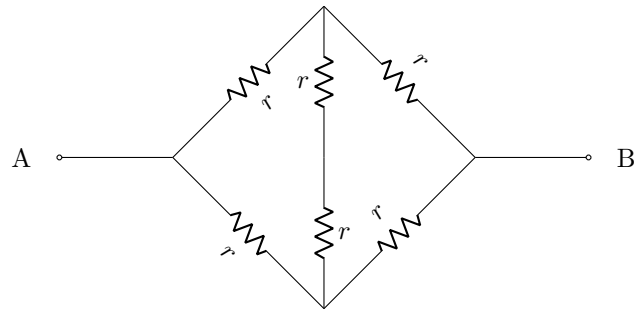
1 Electric Circuits

1. What will be the current density of metal if a current of 29A is passed through a cross-sectional area of $0.75m^2$?
A. $0.3867 A/m^2$
B. $0.0259 A/m^2$
C. $3866.6667 A/m^2$
D. $38.6667 A/m^2$
2. Find the equivalent resistance between the points A and B for $r = 132 \Omega$



- A. 132.000Ω
B. 528.000Ω
C. 264.000Ω
D. 0.008Ω

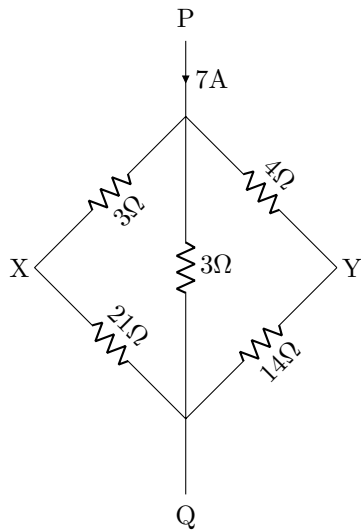
3. Find the equivalent resistance between the points A and B for $r = 536 \Omega$



- A. 536.000Ω
B. 2144.000Ω
C. 1072.000Ω
D. 0.002Ω

2 Power Systems

4. Two resistances R_1 and R_2 are connected in series. What is the equivalent resistance ?
A. 80.00Ω
B. 33.00Ω
C. 47.00Ω
D. 19.39Ω
5. Find the potential difference between P and Q.



- A. 0.43
- B. 16.26
- C. 3.01
- D. 2.32

6. A transformer has its maximum efficiency of 98% at 24 kVA at upf. During the day it is loaded as follows:
 12 hours : 4 kW at pf 0.4 lag
 6 hours : 9 kW at pf 0.5 lag
 6 hours : 17 kW at pf 0.8 lag
 Find the all day efficiency of the transformer

- A. -50.856 %
- B. 3.940 %
- C. 96.060 %
- D. 48.030 %

7. A transformer has its maximum efficiency of 98% at 25 kVA at upf. During the day it is loaded as follows:
 12 hours : 3 kW at pf 0.5 lag
 6 hours : 6 kW at pf 0.6 lag
 6 hours : 10 kW at pf 0.7 lag
 Find the all day efficiency of the transformer

- A. 47.467 %
- B. 94.934 %
- C. 5.066 %
- D. -43.152 %

8. Two resistances R_1 and R_2 are connected in series.
 What is the equivalent resistance ?

- A. 89.00 Ω
- B. 34.00 Ω
- C. 55.00 Ω
- D. 21.01 Ω

9. A transformer has its maximum efficiency of 98% at 23 kVA at upf. During the day it is loaded as follows:
 12 hours : 3 kW at pf 0.6 lag
 6 hours : 8 kW at pf 0.5 lag
 6 hours : 14 kW at pf 0.7 lag
 Find the all day efficiency of the transformer

- A. 95.720 %
- B. 4.280 %
- C. -54.697 %
- D. 47.860 %

* * * All the Best * * *



Scan / click the QR code to submit your answers.