

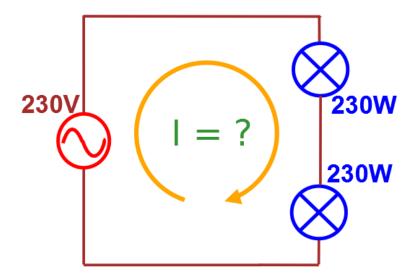
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<u>Electrical Problem – 51</u>

Instructions:

- 1. Do not discuss with any one while solving the problems
- 2. Do not use internet while solving the problems
- 3. Do not use books while solving the problems
- 4. Do not try to copy from others
- 5. Do the problems in an easy way.



R1 = R2 = V*V/P

R = 230*230/230

 $R = 230\Omega$

I = 230/460

I = 0.5A

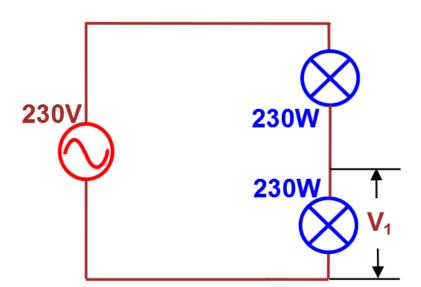
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Electrical Problem – 52

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I = 0.5A

V = IR

V = 0.5*230

V = 115V



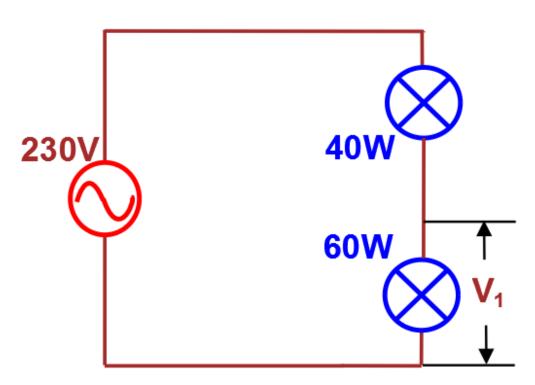
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Electrical Problem – 53

Instructions:

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R = V*V/P

 $R1 = 230*230/60 = 1322.5\Omega$

 $R2 = 881.7\Omega$

I = 230/2204.2 = 0.104A

 $V = I*R = 0.104*881.7 = 91.69\Omega$

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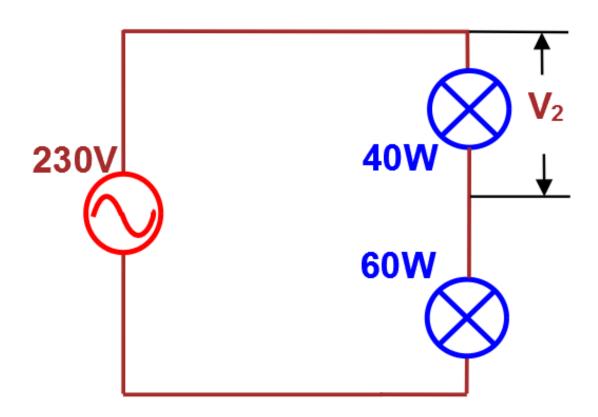
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Electrical Problem – 54

Instructions:

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- 3. Do not use books while solving the problems
- 4. Do not try to copy from others
- 5. Do the problems in an easy way.



R1 = 230*230/40 = 1322.5

R2 = 230*230/60 = 881.67

I = 230/2204.2 = 0.104A

V = 0.104*1322.5 = 137.54V



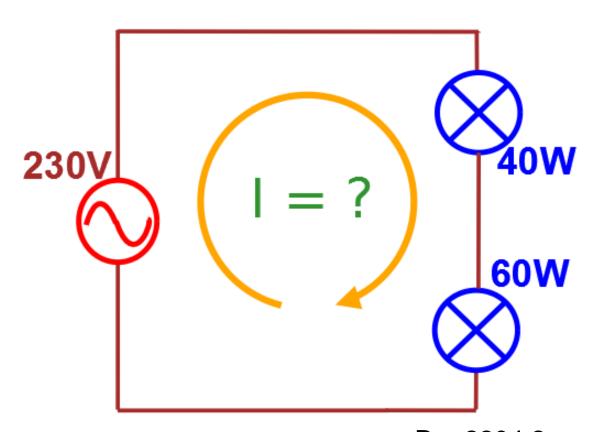
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Electrical Problem – 55

Instructions:

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R = 2204.2

I = 230/2204.2

I = 0.104A



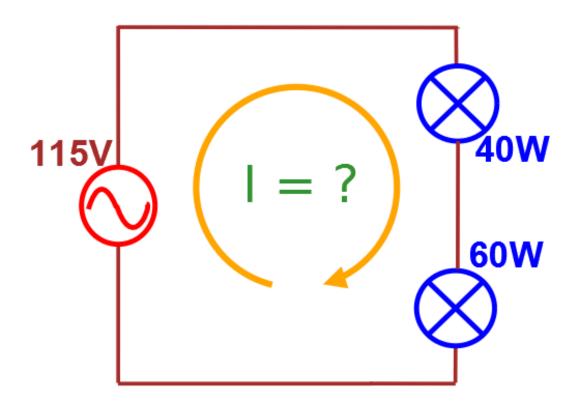
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Electrical Problem – 56

Instructions:

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- 3. Do not use books while solving the problems
- 4. Do not try to copy from others
- 5. Do the problems in an easy way.



R1 = 230*230/40 = 1322.5

R2 = 230*230/60 = 881.67

R = 2204.2

I = 115/2204.2 = 0.052A

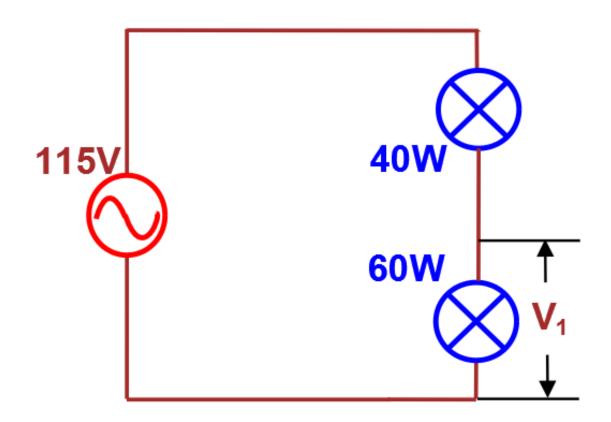
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Electrical Problem – 57

Instructions:

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- 4. Do not try to copy from others
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 $R1 = 881.67\Omega$

I = 0.052A

V1 = 0.052*881.67

V1 = 46V

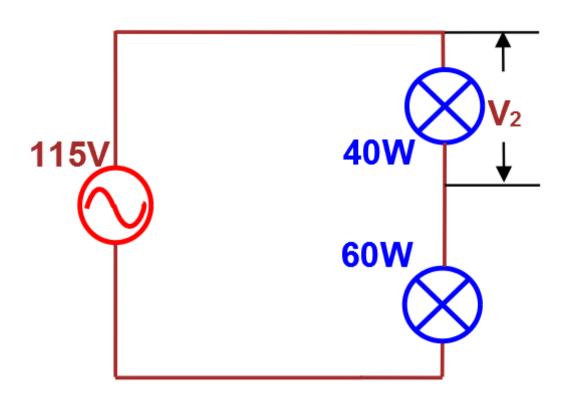
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Electrical Problem – 58

Instructions:

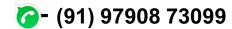
- 1. Do not discuss with any one while solving the problems
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 $R = 1322.5\Omega$ I = 0.052AV = 69V



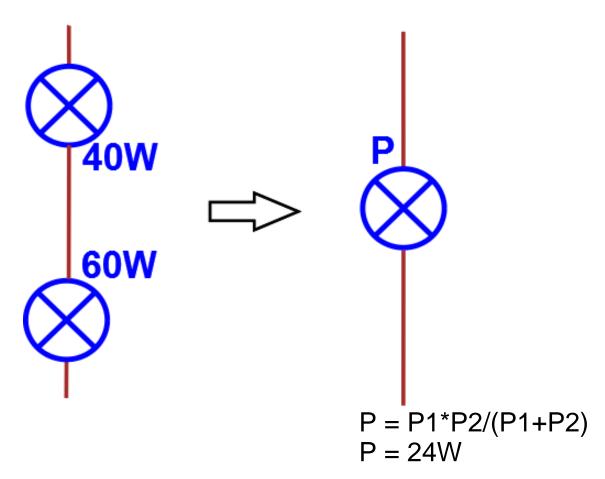
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Electrical Problem – 59

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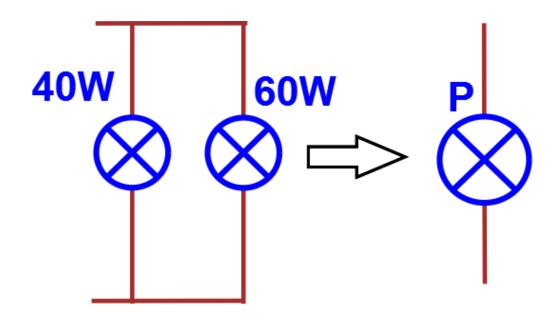
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Electrical Problem – 60

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P = 100W