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Question: 1. Calculate the value of Rx in the figure below which makes t...

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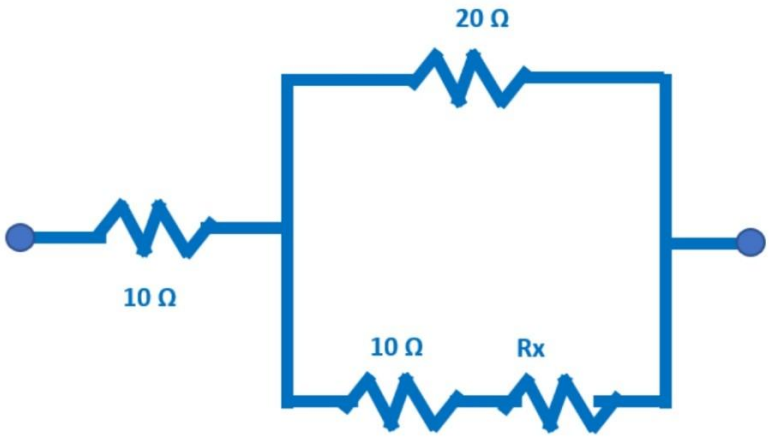
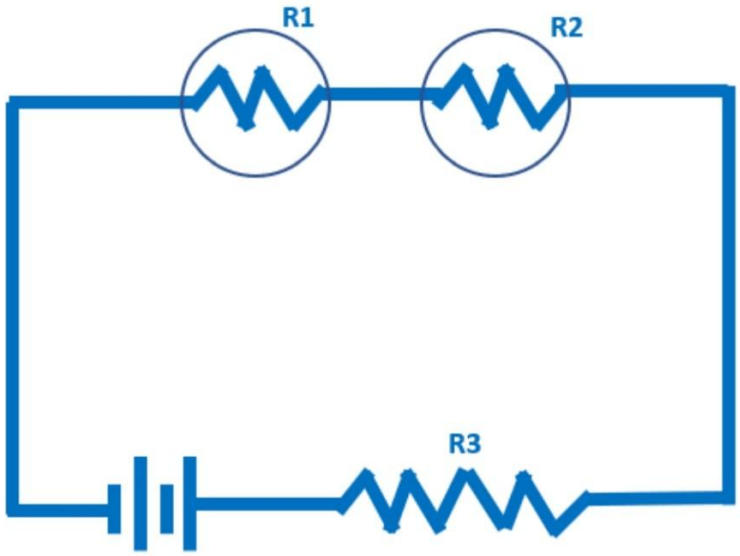
1. Calculate the value of Rx in the figure below which makes the total resistance of the circuit also equal to Rx.



2. Two lamps need 50 V and 2.0 A each in order to operate at the desired brilliancy. They are to be connected in series across a 120 V line. What is the resistance of the rheostat which must be placed in series with the lamps?



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Expert Answer

Durgababu` Gampala answered this
18,669 answers

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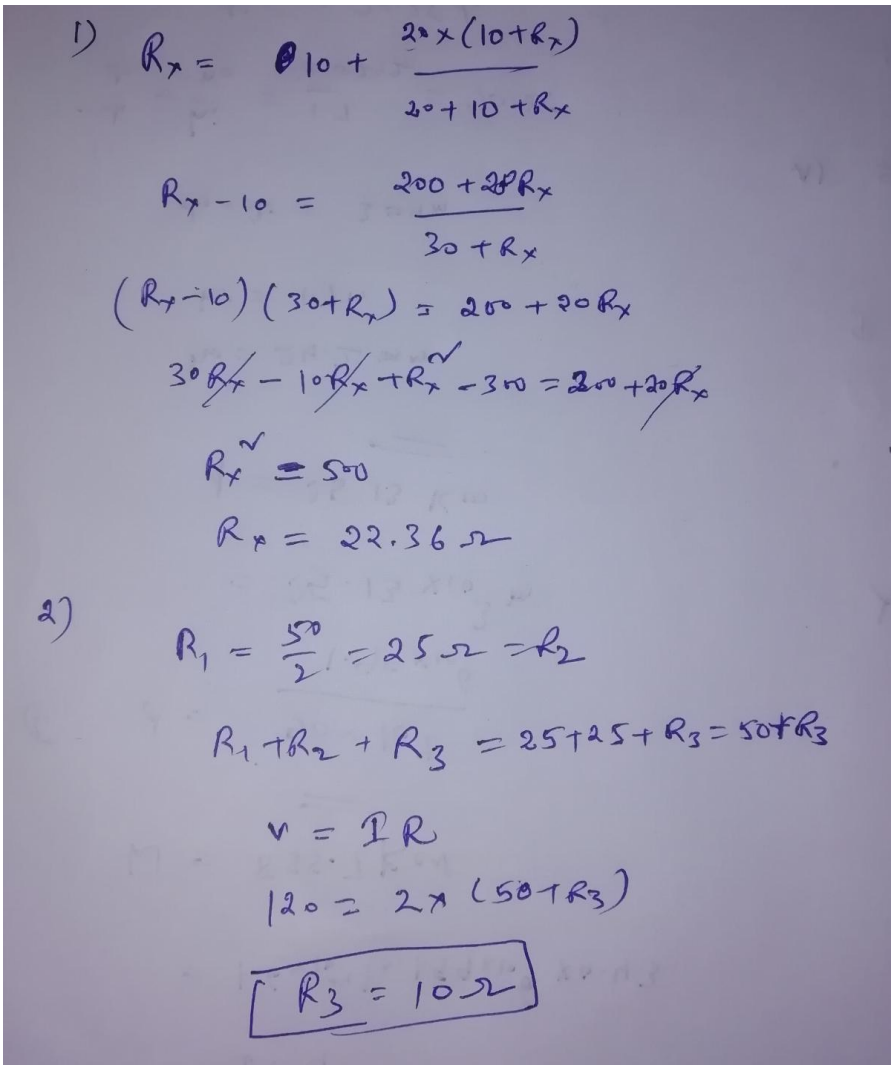

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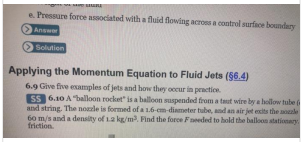
Up next for you in Physics

You and your friends are doing physics experiments on a frozen pond that serves as a frictionless, horizontal surface. Sam, with mass

See answer

problem 6.9


e. Pressure force associated with a fluid flowing across a control surface boundary

Answer

Solution

Applying the Momentum Equation to Fluid Jets (§6.4)

6.9 Give five examples of jets and how they occur in practice.

S 6.10 A "balloon rocket" is a balloon suspended from a taut wire by a hollow tube and string. The nozzle is formed of a 1.6-cm-diameter tube, and an air jet exits the nozzle 60 m/s and a density of 1.2 kg/m³. Find the force F needed to hold the balloon stationary friction.

See answer

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Q: 1. A force of 100N is directed north on a -20C point charge. What is the magnitude and direction of the electric field at this point? 2. A positive charge of +50uC is placed in an electric field of 50,000 N/C directed upward. What mass should the charge have to remain suspended in the air? 3. An electron is released from rest in a uniform electric field and accelerates to the east...

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