

Group Practice

(Hon)

Complex Circuits

1. For the circuit to the right:

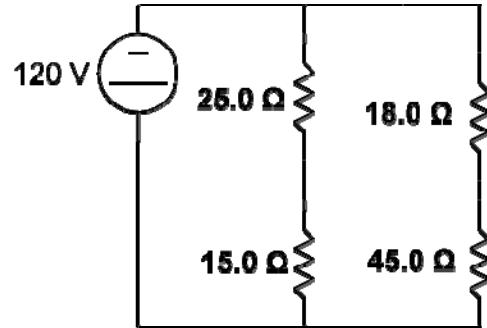
a. Determine the equivalent resistance.

[32.9 Ω] [24.5 Ω] [27.8 Ω]

b. What is the current through and voltage across the 45.0 Ω resistor?

[1.90 A, 85.7 V] [2.67 A, 120 V]

[6.67 A, 0.38 V]



2. For the circuit to the right:

a. Determine the equivalent resistance.

[35.5 Ω] [22.6 Ω] [54.2 Ω]

b. What is the current through and voltage across the 65.0 Ω resistor?

[0.62 A, 40.3 V] [0.43 A, 27.7 V]

[1.25 A, 81.3 V]

