Name: Pd: Date:

**Series Circuits**

Fill in the missing values for the following circuits.

**3Ω**

Rtotal = \_\_\_\_\_\_\_



Ithrough R1 = \_\_\_\_\_\_\_

 IR2 = \_\_\_\_\_\_\_

 IR3 = \_\_\_\_\_\_\_

**3Ω**

**12V**

Vdrop(R1) = \_\_\_\_\_\_\_

 Vd(R2) = \_\_\_\_\_\_\_

 Vd(R3) = \_\_\_\_\_\_\_

**3Ω**

**2Ω**

**3Ω**

Rtotal = \_\_\_\_\_\_\_



Ithrough R1 = \_\_\_\_\_\_\_

 IR2 = \_\_\_\_\_\_\_

 IR3 = \_\_\_\_\_\_\_

**12V**

Vdrop(R1) = \_\_\_\_\_\_\_

 Vd(R2) = \_\_\_\_\_\_\_

 Vd(R3) = \_\_\_\_\_\_\_

**4Ω**

**3Ω**

**3Ω**

**3Ω**

Rtotal = \_\_\_\_\_\_\_



Ithrough R1 = \_\_\_\_\_\_\_

 IR2 = \_\_\_\_\_\_\_

**24V**

**24V**

 IR3 = \_\_\_\_\_\_\_

Vdrop(R1) = \_\_\_\_\_\_\_

 Vd(R2) = \_\_\_\_\_\_\_

 Vd(R3) = \_\_\_\_\_\_\_

**2Ω**

**3Ω**

**4Ω**

Rtotal = \_\_\_\_\_\_\_



Ithrough R1 = \_\_\_\_\_\_\_

 IR2 = \_\_\_\_\_\_\_

 IR3 = \_\_\_\_\_\_\_

Vdrop(R1) = \_\_\_\_\_\_\_

 Vd(R2) = \_\_\_\_\_\_\_

 Vd(R3) = \_\_\_\_\_\_\_

Name: Pd: Date:

**Parallel Circuits**

Fill in the missing values for the following circuits.



Vdrop(R1) = \_\_\_\_\_\_\_

 Vd(R2) = \_\_\_\_\_\_\_

**12V**

 Vd(R3) = \_\_\_\_\_\_\_

**3Ω**

**3Ω**

**3Ω**

Ithrough R1 = \_\_\_\_\_\_\_

 IR2 = \_\_\_\_\_\_\_

 IR3 = \_\_\_\_\_\_\_

Itotal(through voltage source) = \_\_\_\_\_\_\_

Rtotal = \_\_\_\_\_\_\_



Vdrop(R1) = \_\_\_\_\_\_\_

 Vd(R2) = \_\_\_\_\_\_\_

**12V**

 Vd(R3) = \_\_\_\_\_\_\_

**2Ω**

**3Ω**

**4Ω**

Ithrough R1 = \_\_\_\_\_\_\_

 IR2 = \_\_\_\_\_\_\_

 IR3 = \_\_\_\_\_\_\_

Itotal(through voltage source) = \_\_\_\_\_\_\_

Rtotal = \_\_\_\_\_\_\_



Vdrop(R1) = \_\_\_\_\_\_\_

 Vd(R2) = \_\_\_\_\_\_\_

**24V**

**24V**

 Vd(R3) = \_\_\_\_\_\_\_

**3Ω**

**3Ω**

**3Ω**

Ithrough R1 = \_\_\_\_\_\_\_

 IR2 = \_\_\_\_\_\_\_

 IR3 = \_\_\_\_\_\_\_

Itotal(through voltage source) = \_\_\_\_\_\_\_

Rtotal = \_\_\_\_\_\_\_



Vdrop(R1) = \_\_\_\_\_\_\_

 Vd(R2) = \_\_\_\_\_\_\_

**4Ω**

**3Ω**

**2Ω**

 Vd(R3) = \_\_\_\_\_\_\_

Ithrough R1 = \_\_\_\_\_\_\_

 IR2 = \_\_\_\_\_\_\_

 IR3 = \_\_\_\_\_\_\_

Itotal(through voltage source) = \_\_\_\_\_\_\_

Rtotal = \_\_\_\_\_\_\_