

# Parallel Circuit Worksheet #3

Meets ASE Task: A6 – A-4 – P-1

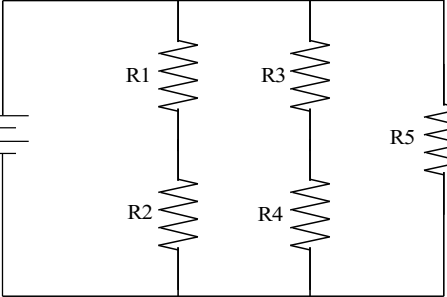
Name: \_\_\_\_\_ Date: \_\_\_\_\_ Time on Task: \_\_\_\_\_

Make/Model/Year: \_\_\_\_\_ VIN: \_\_\_\_\_

Evaluation (Enter number from 4, 3, 2, 1) : \_\_\_\_\_

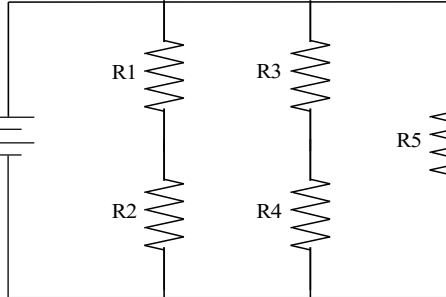
1. Determine the missing value for each parallel circuit.

**1.**



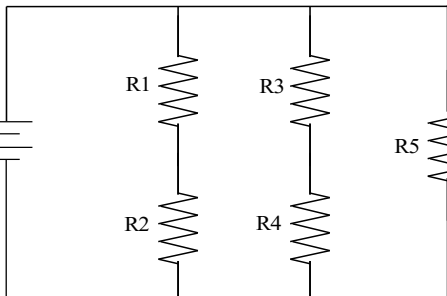
$E = 12 \text{ volts}$      $R_2 = 8 \text{ ohms}$      $R_5 = 8 \text{ ohms}$   
 $I_T = \underline{\hspace{2cm}}$      $R_3 = 8 \text{ ohms}$   
 $R_1 = 8 \text{ ohms}$      $R_4 = 8 \text{ ohms}$

**2.**



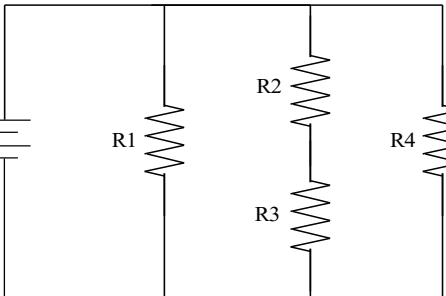
$E = 24 \text{ volts}$      $R_2 = 4 \text{ ohms}$      $R_5 = 4 \text{ ohms}$   
 $I_T = \underline{\hspace{2cm}}$      $R_3 = 4 \text{ ohms}$   
 $R_1 = 4 \text{ ohms}$      $R_4 = 4 \text{ ohms}$

**3.**



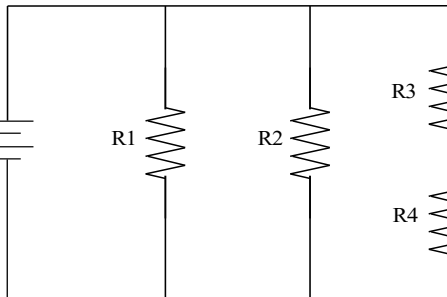
$E = \underline{\hspace{2cm}}$      $R_2 = 2 \text{ ohms}$      $R_5 = 4 \text{ ohms}$   
 $I_T = 6 \text{ amperes}$      $R_3 = 2 \text{ ohms}$   
 $R_1 = 2 \text{ ohms}$      $R_4 = 2 \text{ ohms}$

**4.**



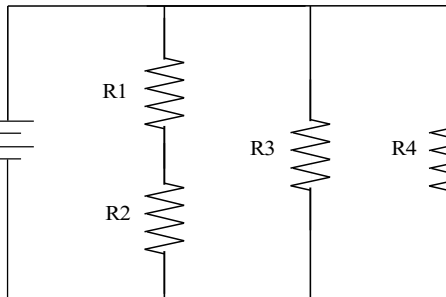
$E = 12 \text{ volts}$      $R_2 = \underline{\hspace{2cm}}$   
 $I_T = 4 \text{ amperes}$      $R_3 = 4 \text{ ohms}$   
 $R_1 = 9 \text{ ohms}$      $R_4 = 9 \text{ ohms}$

**5.**



$E = 24 \text{ volts}$      $R_2 = 12 \text{ ohms}$   
 $I_T = 6 \text{ amperes}$      $R_3 = \underline{\hspace{2cm}}$   
 $R_1 = 12 \text{ ohms}$      $R_4 = 6 \text{ ohms}$

**6.**



$E = 12 \text{ volts}$      $R_2 = 12 \text{ ohms}$   
 $I_T = 2 \text{ amperes}$      $R_3 = 18 \text{ ohms}$   
 $R_1 = \underline{\hspace{2cm}}$      $R_4 = 18 \text{ ohms}$