**[Insert University Name]**

**[Insert Faculty/School Name]**

**[Insert Department Name]**

**[Course Code]: [Course Name]**

**Dr. [Professor's Name]**

**[Semester [20YY][YY]] - Section [Section Number]**

**[Date]**

# [Homework Title] #[Number]

**[Your Name]**

(Student ID: [Your ID])

# Problem 1

**Given**

**Solution**

# Problem 2

**Given**

**Solution**

# Problem n

**Given**

- $R = 10\,\Omega$
- $V = 5\,\mathrm{V}$

**Solution**

According to Ohm's Law: $V = I \times R$, :

$$\Rightarrow I = \frac{V}{R}$$

Plugging in the given values:

$$I = \frac{5\ \mathrm{V}}{10\,\Omega} = 0.5\ \mathrm{A}$$

Therefore, the current flowing through the resistor is 0.5 A.

*End of **[Homework Title] #[Number]***