

# Course Name HW Assignment Number

Your Name    Due Date

## Problem 1: Problem Title

Your solution goes here. You can use inline math like  $x = 5$  or display math:

$$f(x) = x^2 + 2x + 1 \quad (1)$$

$$= (x + 1)^2 \quad (2)$$

(a)

Sub-problem solution here.

(b)

Another sub-problem solution here.

## Problem 2: Code Example

You can include code using the provided environments:

```
% MATLAB code example
```

```
x = linspace(0, 2*pi, 100);
```

```
y = sin(x);
```

```
plot(x, y);
```

```
# Python code example
```

```
import numpy as np
```

```
x = np.linspace(0, 2*np.pi, 100)
```

```
y = np.sin(x)
```

```
$ python script.py  
Output appears here
```

## Problem 3: Including Graphics

You can include figures and reference them:

## Problem 4: Block Diagrams

Create centered block diagrams using the hwblocks environment:

