

# Your Title

Your Name

January 30, 2017

## [Textbook Problem #4.2.1]

(The `\noindent` command disables the automatic indentation at the beginning of each paragraph. )

(Here's an example of automatic indentation.)

(\\ breaks a line;  
enter does nothing.)

(math formula)<sup>1</sup>  $\int_a^b f'(x)dx = f(b) - f(a)$

(matrix and vector)  $\mathbf{A} = \begin{bmatrix} a_{11} & a_{12} & \cdots & a_{1n} \\ a_{21} & a_{22} & & \\ \vdots & & \ddots & \\ a_{n1} & & & a_{nn} \end{bmatrix}, \mathbf{v} = \begin{bmatrix} v_1 \\ v_2 \\ \vdots \\ v_n \end{bmatrix}$

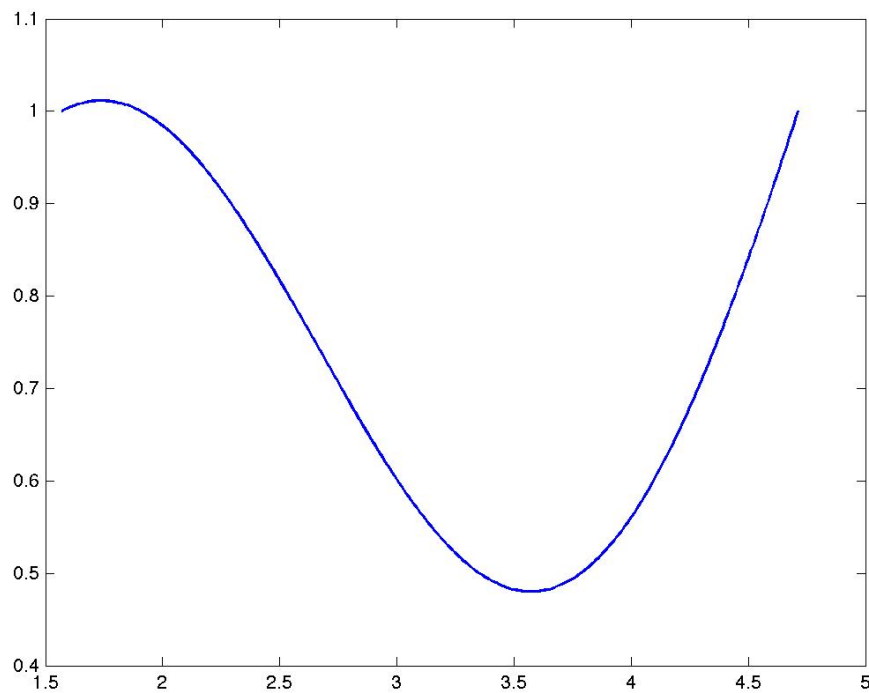
(aligned equations) 
$$\begin{aligned} \sin(2\theta) &= \sin(\theta + \theta) \\ &= \sin \theta \cos \theta + \cos \theta \sin \theta \\ &= 2 \sin \theta \cos \theta \end{aligned}$$

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<sup>1</sup>Aliases for most mathematical symbols can be found at <https://www.artofproblemsolving.com/wiki/index.php/LaTeX:Symbols>

**[Programming Problem 1]**

```
%% The package verbatim helps you format programming codes in your LaTeX file.....  
%% Note that it doesn't automatically break lines.  
x = A\b;  
fprintf('Hello world');
```



The center environment helps you locate your figures and captions in the middle.