Your Title

Your Name

April 3, 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.)

$$(\text{math formula})^1 \int_a^b f'(x)dx = f(b) - f(a)$$
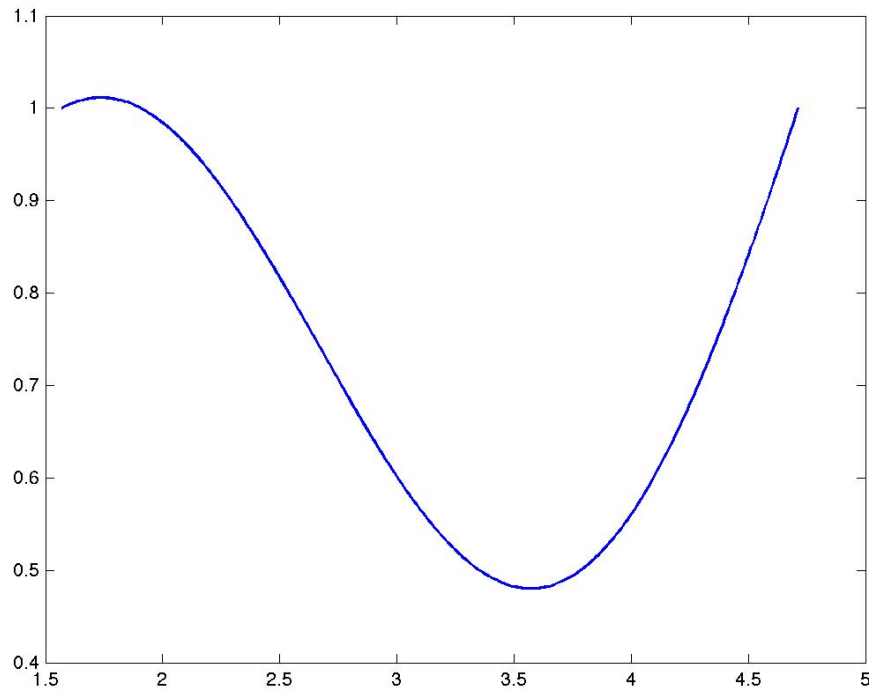
$$(\text{matrix and vector}) \ \mathbf{A} = \begin{bmatrix} a_{11} & a_{12} & \cdots & a_{1n} \\ a_{21} & a_{22} & & \\ \vdots & & \ddots & \\ a_{n1} & & & a_{nn} \end{bmatrix}, \mathbf{v} = \begin{bmatrix} v_1 \\ v_2 \\ \vdots \\ v_n \end{bmatrix}$$

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

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[1]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.