

Theorems

- **theorem** theorem:

```
\begin{theorem}
Some stuff. These mostly differ
in the labels that begin each.
```

```
Note the line, paragraph breaks.
\end{theorem}
```

Theorem 1 *Some stuff. These mostly differ in the labels that begin each.*

Note the line, paragraph breaks.

- **corollary** theorem:

```
\begin{corollary}
Some stuff. These mostly differ
in the labels that begin each.
```

```
Note the line, paragraph breaks.
\end{corollary}
```

Corollary 2 *Some stuff. These mostly differ in the labels that begin each.*

Note the line, paragraph breaks.

- **lemma** theorem:

```
\begin{lemma}
Some stuff. These mostly differ
in the labels that begin each.
```

```
Note the line, paragraph breaks.
\end{lemma}
```

Lemma 3 *Some stuff. These mostly differ in the labels that begin each.*

Note the line, paragraph breaks.

- **observation** theorem:

```
\begin{observation}
Some stuff. These mostly differ
in the labels that begin each.
```

```
Note the line, paragraph breaks.
\end{observation}
```

Observation 4 *Some stuff. These mostly differ in the labels that begin each.*

Note the line, paragraph breaks.

- **proposition** theorem:

```
\begin{proposition}
Some stuff. These mostly differ
in the labels that begin each.
```

```
Note the line, paragraph breaks.
\end{proposition}
```

Proposition 5 *Some stuff. These mostly differ in the labels that begin each.*

Note the line, paragraph breaks.

- **definition** theorem:

```
\begin{definition}
Some stuff. These mostly differ
in the labels that begin each.
```

```
Note the line, paragraph breaks.
\end{definition}
```

Definition 6 *Some stuff. These mostly differ in the labels that begin each.*

Note the line, paragraph breaks.

- **claim** theorem:

```
\begin{claim}
Some stuff. These mostly differ
in the labels that begin each.
```

```
Note the line, paragraph breaks.
\end{claim}
```

Claim 7 *Some stuff. These mostly differ in the labels that begin each.*

Note the line, paragraph breaks.

- **fact** theorem:

```
\begin{fact}
Some stuff. These mostly differ
in the labels that begin each.
```

```
Note the line, paragraph breaks.
\end{fact}
```

Fact 8 *Some stuff. These mostly differ in the labels that begin each.*

Note the line, paragraph breaks.

- **assumption** theorem:

```
\begin{assumption}
Some stuff. These mostly differ
in the labels that begin each.
```

```
Note the line, paragraph breaks.
\end{assumption}
```

Assumption 9 *Some stuff. These mostly differ in the labels that begin each.*

Note the line, paragraph breaks.

Commands

- **qed** command:

`\qed`



- **dis** command:

`$_dis$`

dis

- **per** command:

`$_per$`

per

- **area** command:

`$_area$`

area

- **cw** command:

`$_cw$`

cw

- **ccw** command:

`$_ccw$`

ccw

- **DIST** command:

`$_DIST$`

DIST

- **OP** command:

`$_OP$`

OP

- **OPprime** command:

`$_OPprime$`

OP'

- **ihat** command:

`$_ihat$`

î

- **jhat** command:

`$_jhat$`

ĵ

- **bigO** command:

`\bigO`
`$_bigO$`

O

O

- **half** command:

`$_half$`

$\frac{1}{2}$

- **abs** command:

`\abs{foo}`
`$_abs{foo}$`

$|foo|$

$|foo|$

- **Pr** command:

`\Pr{foo}`
`$_Pr{foo}$`

$\text{Pr}[foo]$

- **Exp** command:

`\Exp{foo}`
`$_Exp{foo}$`

$\text{Exp}[foo]$

$\text{Exp}[foo]$

- **set** command:

`\set{foo}`
`$_set{foo}$`

$\{foo\}$

$\{foo\}$

Pseudocode Commands

- **FOR** command:

```
\FOR  
$\FOR$
```

```
for  
for
```

- **TO** command:

```
\TO  
$\TO$
```

```
to  
to
```

- **DO** command:

```
\DO  
$\DO$
```

```
do  
do
```

- **WHILE** command:

```
\WHILE  
$\WHILE$
```

```
while  
while
```

- **AND** command:

```
\AND  
$\AND$
```

```
and  
and
```

- **IF** command:

```
\IF  
$\IF$
```

```
if  
if
```

- **THEN** command:

```
\THEN  
$\THEN$
```

```
then  
then
```

- **ELSE** command:

```
\ELSE  
$\ELSE$
```

```
else  
else
```

Layout Commands

- **mathify** command:

Enforces math mode (temporarily, if necessary).

```
\mathify{foo \cdot x^2}
```

```
$_mathify{foo \cdot x^2}$
```

foo · x²
foo · x²

Environments

- **proof** environment:

```
\begin{proof}
This is text to demonstrate the
flow and formatting. Using these
makes the latex more readable.
```

```
Note that most environments do
\emph{not} set the math mode.
\end{proof}
```

Proof This is text to demonstrate the flow and formatting. Using these makes the latex more readable.

Note that most environments do *not* set the math mode. ■

- **proof-sketch** environment:

```
\begin{proof-sketch}
This is text to demonstrate the
flow and formatting. Using these
makes the latex more readable.
```

```
Note that most environments do
\emph{not} set the math mode.
\end{proof-sketch}
```

Sketch of Proof This is text to demonstrate the flow and formatting. Using these makes the latex more readable.

Note that most environments do *not* set the math mode. ■

- **proof-idea** environment:

```
\begin{proof-idea}
This is text to demonstrate the
flow and formatting. Using these
makes the latex more readable.
```

```
Note that most environments do
\emph{not} set the math mode.
\end{proof-idea}
```

Proof Idea This is text to demonstrate the flow and formatting. Using these makes the latex more readable.

Note that most environments do *not* set the math mode. ■

- **proof-of-lemma** environment:

```
\begin{proof-of-lemma}{foo}
This is text to demonstrate the
flow and formatting. Using these
makes the latex more readable.
```

```
Note that most environments do
\emph{not} set the math mode.
\end{proof-of-lemma}
```

Proof of Lemma foo This is text to demonstrate the flow and formatting. Using these makes the latex more readable.

Note that most environments do *not* set the math mode. ■

- **proof-attempt** environment:

```
\begin{proof-attempt}
This is text to demonstrate the
flow and formatting. Using these
makes the latex more readable.
```

```
Note that most environments do
\emph{not} set the math mode.
\end{proof-attempt}
```

Proof Attempt This is text to demonstrate the flow and formatting. Using these makes the latex more readable.

Note that most environments do *not* set the math mode. ■

- **proofof** environment:

```
\begin{proofof}{foo}
This is text to demonstrate the
flow and formatting. Using these
makes the latex more readable.
```

```
Note that most environments do
\emph{not} set the math mode.
\end{proofof}
```

Proof of foo: This is text to demonstrate the flow and formatting. Using these makes the latex more readable.

Note that most environments do *not* set the math mode. ■

- **remark** environment:

```
\begin{remark}
This is text to demonstrate the
flow and formatting. Using these
makes the latex more readable.
```

```
Note that most environments do
\emph{not} set the math mode.
\end{remark}
```

Remark This is text to demonstrate the flow and formatting. Using these makes the latex more readable.

Note that most environments do *not* set the math mode.