By default, theorems, lemmas, and corollaries are defined as follows:

\newtheorem{Theorem}{Theorem}

\newtheorem{Corollary}{Corollary}[Theorem]

\newtheorem{Lemma} [Theorem] {Lemma}

To change these defaults, or add others, check the next page for uses for ..initheorem* or ..initheorem like so.

To begin a theorem environment, use ..begin thm Theorem_Type [Theorem name].

Theorem types that are available by default are "Theorem", "Lemma", and "Corollary".

..begin thm Theorem Stoke's Theorem

Theorem 1 (Stoke's Theorem). For a closed surface oriented counter-clockwise,

$$\int_{C} \vec{F} \cdot d\vec{r} = \iint_{S} (\nabla \cdot \times \vec{F}) \cdot d\mathbf{S}$$

..end thm Theorem

..begin thm Lemma

Lemma 2. This is a lemma.

..end thm Lemma

- $..initheorem* \ XYZ \ will \ create \ theorem \ type \ XYZ \ with \ no \ numbering. \ Equivalent \ to \\ \verb|\newtheorem*{XYZ}{XYZ}|$
- ..initheorem XYZ will create theorem type XYZ with a counter that increments each time XYZ is created. Equivalent to $\mbox{newtheorem}\{XYZ\}\{XYZ\}$
- ..initheorem XYZ ABC sub will create theorem type XYZ that is subordinate to counter type ABC. Equivalent to \newtheorem{XYZ}{XYZ}[ABC]
- ..initheorem XYZ ABC shared will create theorem type \mathbf{XYZ} that is shared with counter type \mathbf{ABC} . Equivalent to $\mathbf{XYZ} [ABC] \{XYZ\}$