Your title here

Ansys

General section

Description of the first section goes here.

```python
import os
```

Section with code output

Description of the second section goes here.

```python
print("Hello, world!")
```

```
Hello, world!
```

Section with code evaluation but no results included

This section is evaluated but execution results are not included in the output.

```python
print("Hello, world!")
```

Section with code evaluation but no results included

This section is evaluated but execution results are not included in the output.

```python
print(os.getcwd())
```

Section with code evaluation and results included

This section is evaluated and execution results are included in the output.

```python
print(os.getcwd())
```

```
/home/runner/work/pyansys-quarto-cheatsheet/pyansys-quarto-cheatsheet/examples
```

Section without code evaluation

```python
print(os.getcwd())
```

If there is no evaluation, the code cell is not executed. Thus, no execution results are included in the output.

Section without code echo

This section is not evaluated, and the code cell is not shown in the rendered document. However, the output is included in the rendered document.

```
Hello, world!
```

Section without code echo and output

This section is not evaluated, and the code cell is not shown in the rendered document. The output is also not included in the rendered document.

Use of variables

Styles of text

Bold text

Italic text

Bold and italic text

Lists and images

1. Numbered list
2. Numbered list
3. Numbered list

- Bulleted list
- Bulleted list
- Bulleted list

Figure 1: image

Mathematical operators and expressions

Mathematical expressions with operators:

- Comparison operators: $a \geq b$, $a \leq b$, $a > b$, $a < b$, $a = b$, $a \neq b$
- Arithmetic operations: $a + b$, $a - b$, $a \times b$, $a \div b$, a^2, $\sqrt{a}$
- Logical operators: $a \wedge b$, $a \vee b$, $\neg a$
- Set operations: $A \cup B$, $A \cap B$, $A \subseteq B$, $x \in A$

Complex expressions:

$$\int_0^\infty e^{-x^2} dx = \frac{\sqrt{\pi}}{2}$$

$$\sum_{i=1}^{n} i = \frac{n(n+1)}{2}$$

Algorithm pseudocode with math symbols:

```
for i = 1 to n:
    if x[i] ≥ threshold:
        result[i] ← x[i] × weight
    else:
        result[i] ← 0
```

You can also leverage the `algorithm` and `algpseudocode` LaTeX packages for more advanced algorithm representation.

Algorithm 1 Sample Algorithm

Require: $n \geq 0$
Ensure: $y = x^n$
$\quad y \leftarrow 1$
$\quad X \leftarrow x$
$\quad N \leftarrow n$
$\quad$**while** $N \neq 0$ **do**
$\quad\quad$**if** N is even **then**
$\quad\quad\quad X \leftarrow X \times X$
$\quad\quad\quad N \leftarrow \frac{N}{2}$ $\qquad\qquad \triangleright$ This is a comment
$\quad\quad$**else if** N is odd **then**
$\quad\quad\quad y \leftarrow y \times X$
$\quad\quad\quad N \leftarrow N - 1$
$\quad\quad$**end if**
$\quad$**end while**

Subsection

- Add subsections as needed.
- Add more subsections as needed.
- Add more subsections as needed.

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