Math Notes

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1 Text Formatting

1.1 Font Styles

Type	Format	Result
Bold	`\textbf{Text}`	**Text**
Italics	`\textit{Text}`	*Text*
Underline	`\underline{Text}`	Text

Source
https://latex-tutorial.com/symbols/text-formatting/
Further Study
https://www.overleaf.com/learn/latex/Bold%2C_italics_and_underlining
https://latex-tutorial.com/changing-font-style/

1.2 Font Sizes

Type	Format	Result
tiny	`{\tiny Text}`	Text
scriptsize	`{\scriptsize Text}`	Text
footnotesize	`{\footnotesize Text}`	Text
small	`{\small Text}`	Text
normalsize (default)	`{\normalsize Text}`	Text
large	`{\large Text}`	Text
Large	`{\Large Text}`	Text
LARGE	`{\LARGE Text}`	Text
huge	`{\huge Text}`	Text
Huge	`{\Huge Text}`	Text

Source
https://texblog.org/2012/08/29/changing-the-font-size-in-latex/
https://latex-tutorial.com/symbols/text-formatting/

1.3 Verbatim

https://www.overleaf.com/learn/latex/Code_listing

2 Symbols

2.1 Degrees Symbol

The `\degree` command is provided by the `gensymb` package, so if you add:

```
\usepackage{gensymb}
```

to your preamble, that should enable the command.

Another alternative is the `\textdegree` command, which is provided by the `textcomp` package. And finally, `$^{\circ}$` is another way of obtaining roughly the right symbol.

3 Tables

4 Columns

5 Tikz

5.1 circuitikz

https://www.overleaf.com/learn/latex/LaTeX_Graphics_using_TikZ%3A_A_Tutorial_for_Beginners_(Part_4)%E2%80%94Circuit_Diagrams_Using_Circuitikz

6 Including Files

https://www.overleaf.com/learn/latex/Code_listing

```
1  bool Graph::isCycle() {   //similar to DFS
2  for(int i = 0; i < size; i++) {
3    parents[i] = i;
4    colors[i] = i;
5    colors[i] = 'W';
6  }
7  int t = 0;
8
9  for(int i =0; i < size; i++) {
10   //nodes are either White or Black in here
11   if(colors[i] == 'W'){
12     //color[i] = 'G';
13     bool res = isCycleVisit(i, t);
14     if(res)
15       return res;
16   }//if
17 }//for
18 return false;
19 }
```

Function: Graph::isCycle()