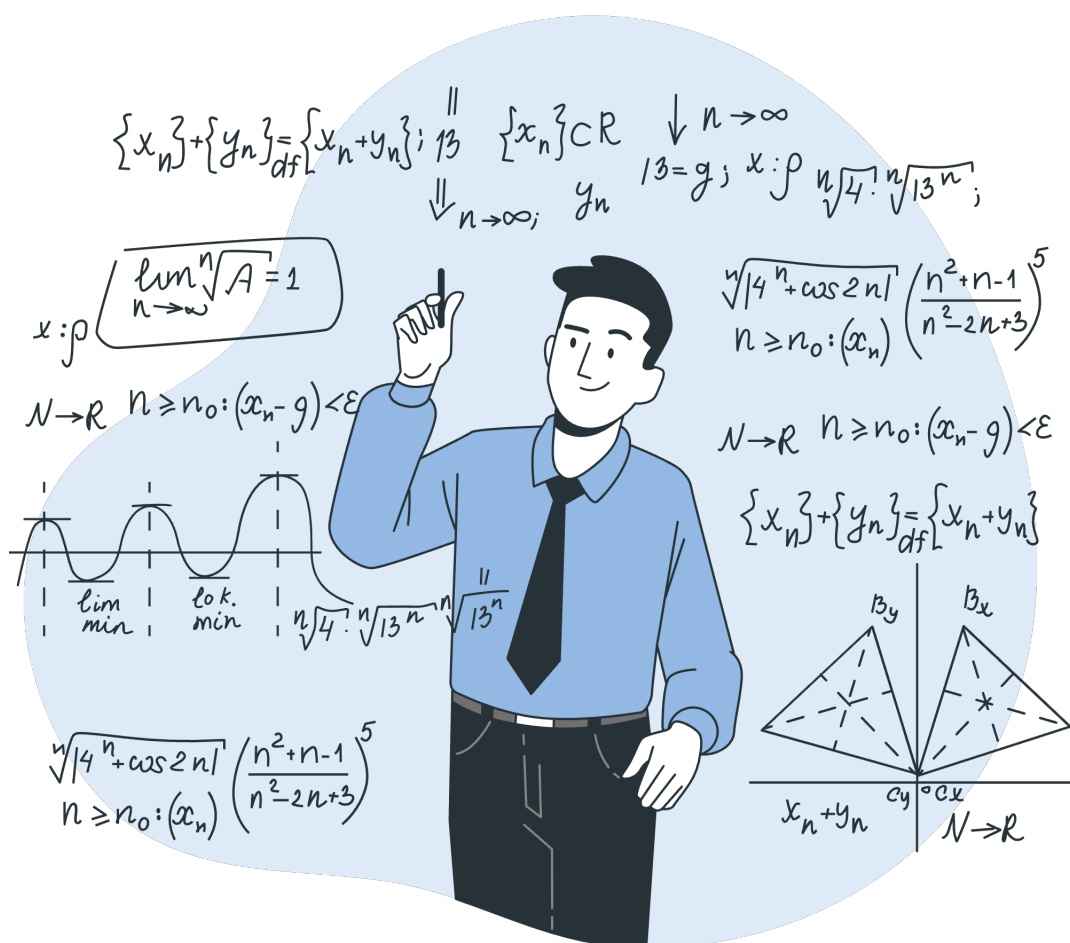


# Tikz Code Snippets



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# Theory

## SECTION 1

### Introduction

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#### SUBSECTION 1.1

##### Triangle Construction

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#### Code 1

The following piece of code renders a triangle with start  $(0, 0)$  to  $(1, 0)$  to  $(1, 1)$  and then completing a cycle:

```
\begin{tikzpicture}[scale=3]
  \draw[red, thick, <->]
    (0,0) -- (1,0) -- (1,1) -- cycle;
\end{tikzpicture}
```

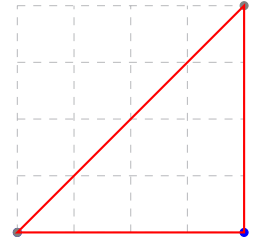


Figure 1. A triangle drawn with cycle

#### SUBSECTION 1.2

##### Curved Path Construction

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#### Code 2

The following piece of code renders a curve with start  $(0, 0)$  and end  $(2, 0)$  using controls (blue dots)  $(1, 1)$  and end  $(2, 1)$ :

```
\begin{tikzpicture}[scale=2.5]
  \filldraw[blue]
    (1,1) circle [radius=.5pt]
    (2,1) circle [radius=.5pt];
  \filldraw[gray]
    (0,0) circle [radius=.5pt]
    (2,0) circle [radius=.5pt];
  \draw[red, thick]
    (0,0) .. controls (1,1) and (2,1) .. (2,0);
  \draw[thin, dashed]
    (0,0) rectangle (2,1);
\end{tikzpicture}
```

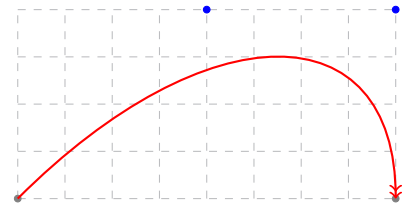


Figure 2. A curve with controls

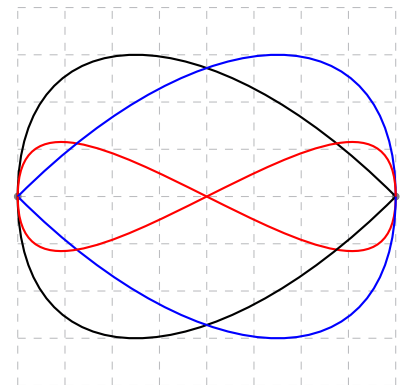


Figure 3. Curves with controls