

# simple-plot

Typst Package

*Mathematical Function Plotting*

---

A lightweight library for creating elegant mathematical plots

Version 0.3.0

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# 1. Introduction

`simple-plot` is a Typst package for creating clean, elegant mathematical plots. Built on CeTZ, it provides an intuitive interface for plotting functions, data points, and creating publication-ready graphs.

## 1.1. Features

- Plot mathematical functions with automatic sampling
- Scatter plots and line plots with customizable markers
- Clean integer-based tick system by default
- Major and minor grid with elegant styling
- Gap-based grid line breaks around tick labels (grid-label-break)
- Automatic axis extension beyond grid
- Flexible axis positioning (origin, bottom/left, custom)
- Multiple label display options (unit-label-only, label-step)
- Function labels with flexible positioning
- Clipping for clean rendering at boundaries

## 1.2. Installation

Import the package in your Typst document:

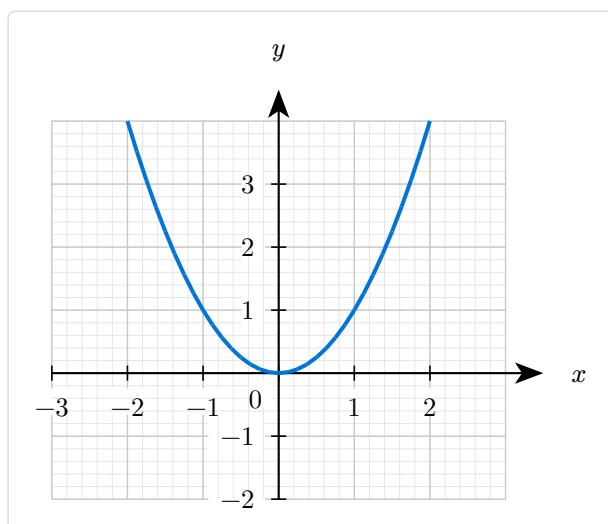
```
#import "@local/simple-plot:0.3.0": plot
```

## 1.3. Quick Start

Code

```
#plot(
    width: 6, height: 5,
    xmin: -3, xmax: 3, ymin: -2, ymax: 4,
    xlabel: $x$, ylabel: $y$,
    show-grid: true,
    (fn: x => x * x, stroke: blue + 1.5pt),
)
```

Preview



## 2. Basic Usage

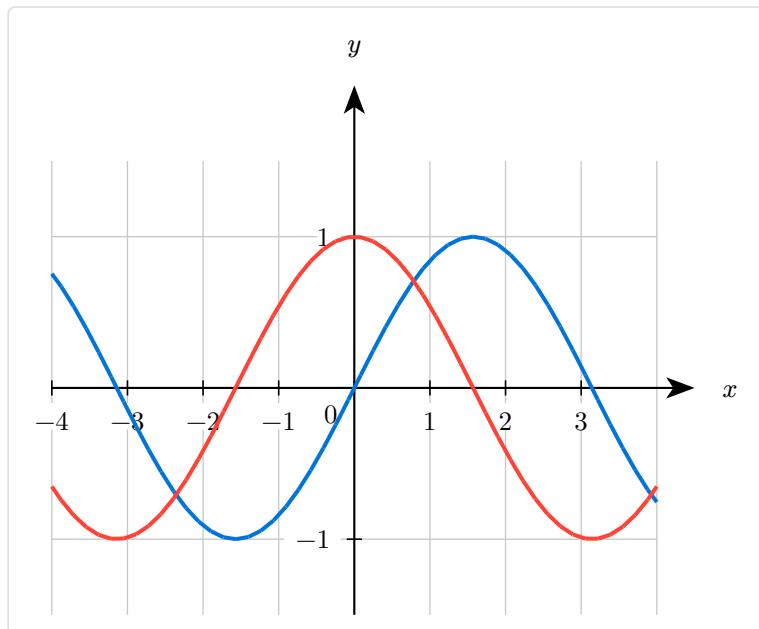
### 2.1. Plotting Functions

Plot mathematical functions by passing a dictionary with `fn`:

Code

```
#plot(
  width: 8, height: 6,
  xmin: -4, xmax: 4, ymin: -1.5, ymax: 1.5,
  xlabel: $x$, ylabel: $y$,
  show-grid: "major",
  (fn: x => calc.sin(x), stroke: blue + 1.5pt),
  (fn: x => calc.cos(x), stroke: red + 1.5pt),
)
```

Preview



### 2.2. Mathematical Functions Reference

Functions are defined using Typst's `calc` module. Here are the most common mathematical functions:

| Function               | Typst syntax                      |
|------------------------|-----------------------------------|
| Power $x^n$            | <code>calc.pow(x, n)</code>       |
| Square root $\sqrt{x}$ | <code>calc.sqrt(x)</code>         |
| Absolute value $ x $   | <code>calc.abs(x)</code>          |
| Sine $\sin(x)$         | <code>calc.sin(x)</code>          |
| Cosine $\cos(x)$       | <code>calc.cos(x)</code>          |
| Tangent $\tan(x)$      | <code>calc.tan(x)</code>          |
| Exponential $e^x$      | <code>calc.exp(x)</code>          |
| Natural log $\ln(x)$   | <code>calc.ln(x)</code>           |
| Log base $b$           | <code>calc.log(x, base: b)</code> |
| Maximum                | <code>calc.max(a, b)</code>       |
| Minimum                | <code>calc.min(a, b)</code>       |

**Important:** When using constants in calculations, use decimal notation (e.g., `2.0` instead of `2`) to avoid type errors. For example:

- ✓ `x => x * x / 2.0`
- ✗ `x => x * x / 2` (*may cause errors*)

This is because Typst's type system requires consistent float arithmetic.

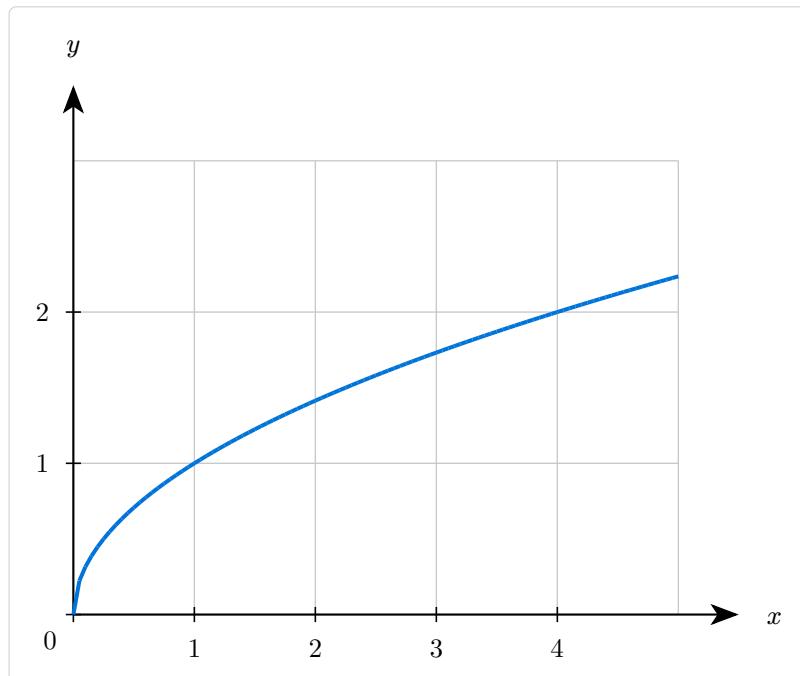
## 2.3. Function Domain

Specify a custom domain for functions:

Code

```
#plot(  
  width: 8, height: 6,  
  xmin: 0, xmax: 5, ymin: 0, ymax: 3,  
  xlabel: $x$, ylabel: $y$,  
  axis-x-pos: "bottom", axis-y-pos: "left",  
  show-grid: "major",  
  (fn: x => calc.sqrt(x), domain: (0, 5), stroke: blue + 1.5pt),  
)
```

Preview



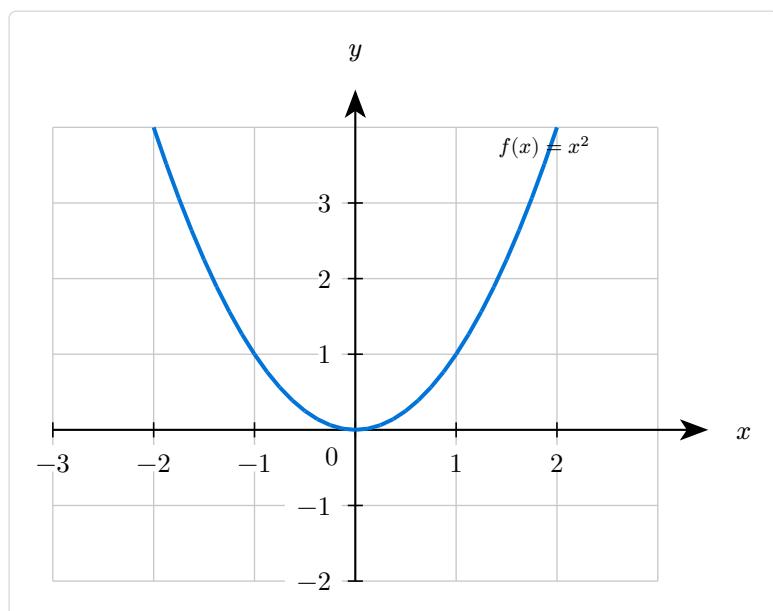
## 2.4. Function Labels

Add labels to your functions:

Code

```
#plot(  
  width: 8, height: 6,  
  xmin: -3, xmax: 3, ymin: -2, ymax: 4,  
  xlabel: $x$, ylabel: $y$,  
  show-grid: "major",  
  (  
    fn: x => x * x,  
    stroke: blue + 1.5pt,  
    label: $f(x) = x^2$,  
    label-side: "above",  
    label-pos: 0.75,  
  ),  
)
```

Preview



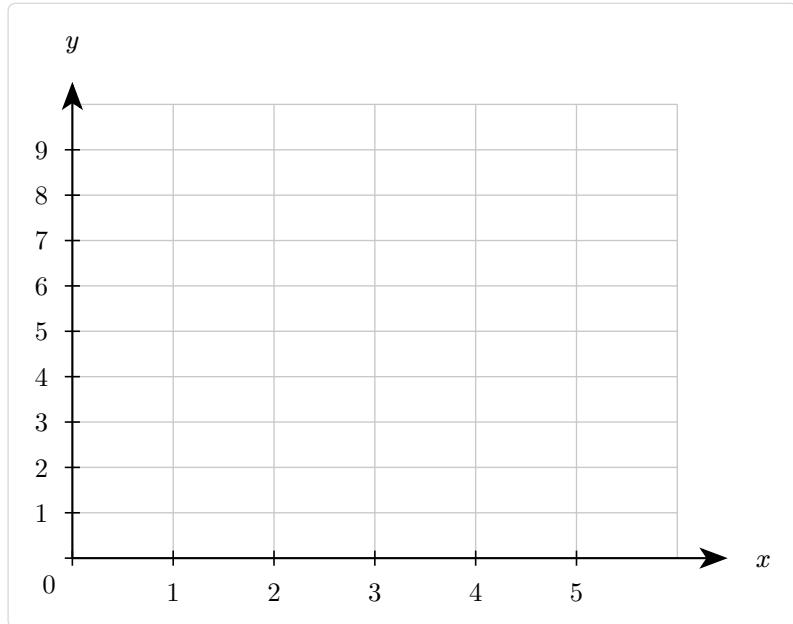
## 2.5. Data Points and Scatter Plots

Plot discrete data points:

## Code

```
#plot(  
  width: 8, height: 6,  
  xmin: 0, xmax: 6, ymin: 0, ymax: 10,  
  xlabel: $x$, ylabel: $y$,  
  axis-x-pos: "bottom", axis-y-pos: "left",  
  show-grid: "major",  
  (  
    data: ((1, 2), (2, 4), (3, 5), (4, 7), (5, 9)),  
    mark: "o",  
    mark-size: 0.15,  
    stroke: blue + 1pt,  
  ),  
)
```

## Preview



## 3. Grid Options

### 3.1. Grid Modes

Control grid display with `show-grid`:

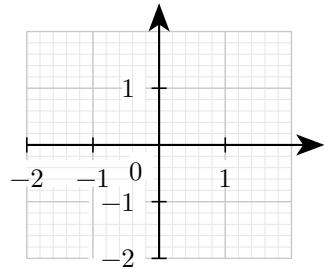
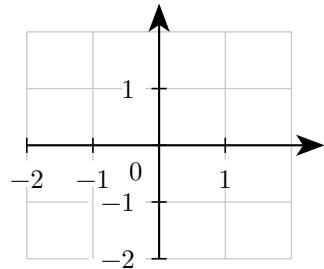
Code

```
// Major grid only
#plot(
  width: 5, height: 4,
  xmin: -2, xmax: 2, ymin: -2, ymax: 2,
  show-grid: "major",
)

// Minor grid only
#plot(
  width: 5, height: 4,
  xmin: -2, xmax: 2, ymin: -2, ymax: 2,
  show-grid: "minor",
)

// Both grids
#plot(
  width: 5, height: 4,
  xmin: -2, xmax: 2, ymin: -2, ymax: 2,
  show-grid: "both",
)
```

Preview



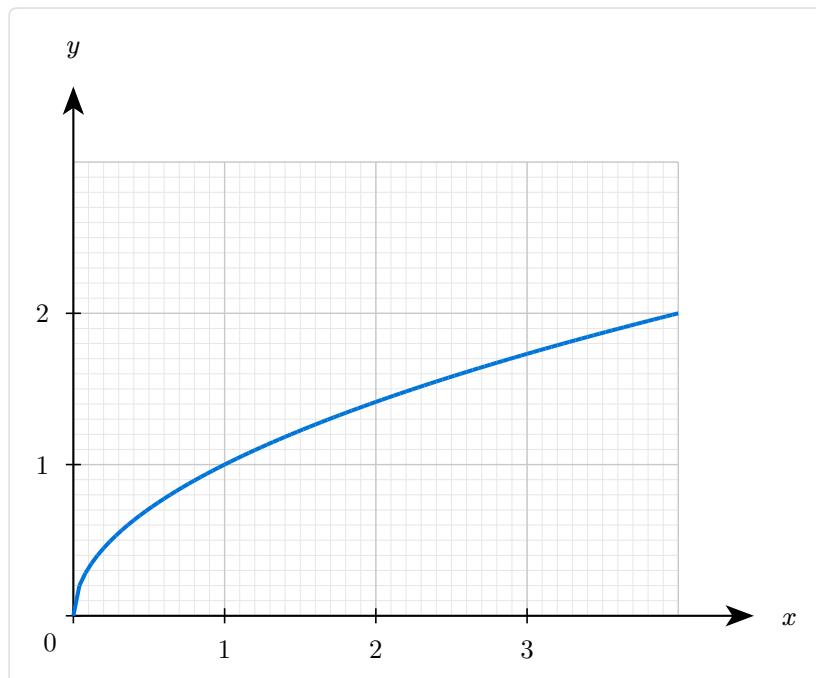
### 3.2. Minor Grid Subdivisions

Control the number of subdivisions with `minor-grid-step`:

## Code

```
#plot(
  width: 8, height: 6,
  xmin: 0, xmax: 4, ymin: 0, ymax: 3,
  xlabel: $x$, ylabel: $y$,
  axis-x-pos: "bottom", axis-y-pos: "left",
  show-grid: "both",
  minor-grid-step: 10, // 10 subdivisions per unit
  (fn: x => calc.sqrt(x), domain: (0, 4), stroke: blue + 1.5pt),
)
```

## Preview



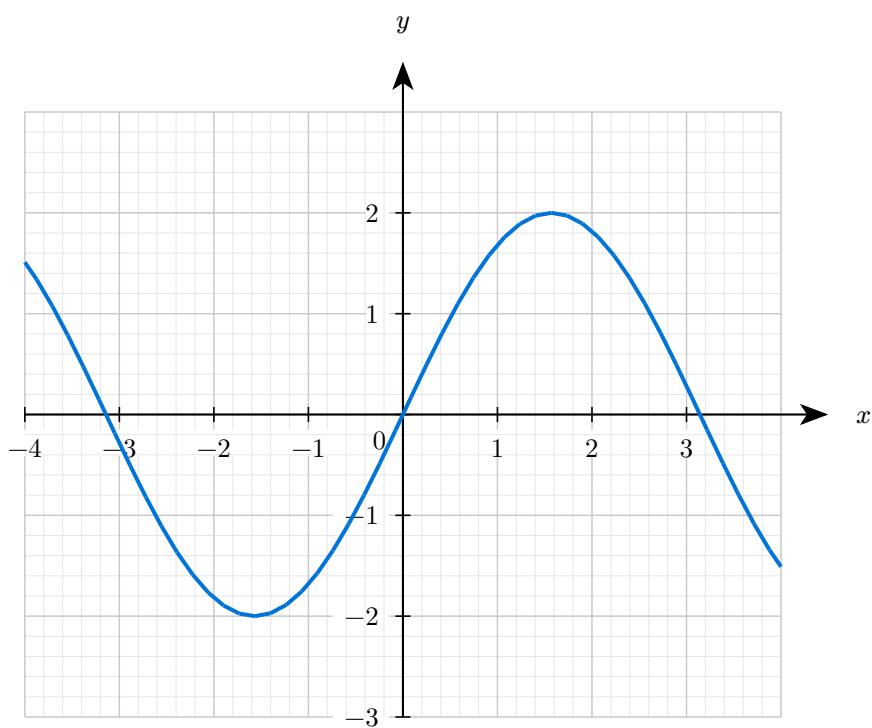
### 3.3. Grid Label Break

The `grid-label-break` option (enabled by default) draws grid lines with gaps around tick labels, creating an elegant break effect. Unlike a white-box approach, this works on any background color:

Code

```
#plot(  
  width: 10, height: 8,  
  xmin: -4, xmax: 4, ymin: -3, ymax: 3,  
  xlabel: $x$, ylabel: $y$,  
  show-grid: "both",  
  minor-grid-step: 5,  
  grid-label-break: true, // Default  
  (fn: x => calc.sin(x) * 2, stroke: blue + 1.5pt),  
)
```

Preview



## 4. Axis Configuration

### 4.1. Axis Position

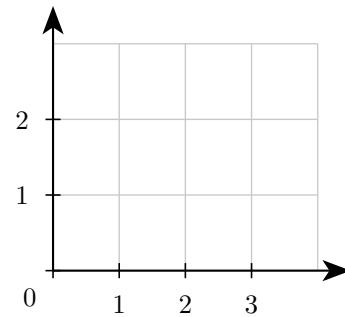
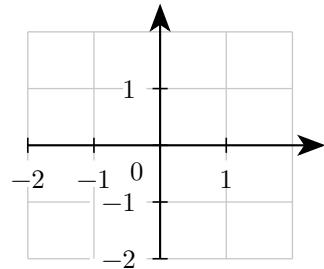
Position axes at origin (default), bottom/left, or custom values:

Code

```
// Through origin (default)
#plot(
  width: 5, height: 4,
  xmin: -2, xmax: 2, ymin: -2, ymax: 2,
  show-grid: "major",
)

// Bottom and left
#plot(
  width: 5, height: 4,
  xmin: 0, xmax: 4, ymin: 0, ymax: 3,
  axis-x-pos: "bottom",
  axis-y-pos: "left",
  show-grid: "major",
)
```

Preview



### 4.2. Axis Extension

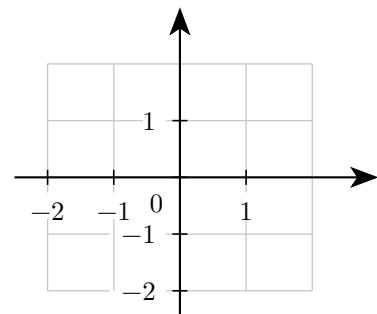
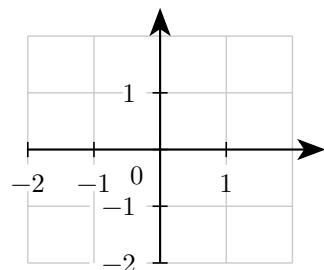
By default, axes extend 0.5 units beyond the grid on the arrow side. Customize with `axis-x-extend` and `axis-y-extend`:

Code

```
// Default extension (0, 0.5)
#plot(
  width: 5, height: 4,
  xmin: -2, xmax: 2, ymin: -2, ymax: 2,
  show-grid: "major",
)

// Custom extension
#plot(
  width: 5, height: 4,
  xmin: -2, xmax: 2, ymin: -2, ymax: 2,
  axis-x-extend: (0.5, 1),
  axis-y-extend: (0.5, 1),
  show-grid: "major",
)
```

Preview



## 5. Tick Configuration

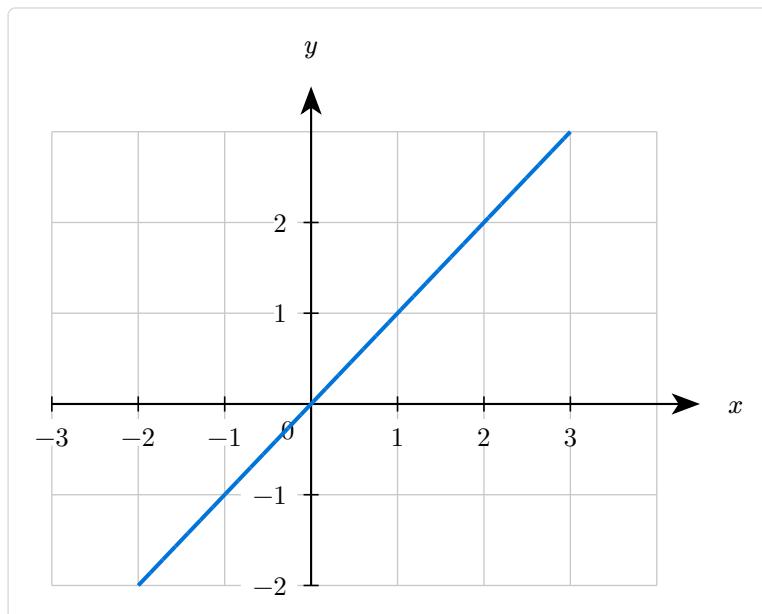
### 5.1. Default Integer Ticks

By default, ticks are placed at every integer (step = 1):

Code

```
#plot(  
  width: 8, height: 6,  
  xmin: -3, xmax: 4, ymin: -2, ymax: 3,  
  xlabel: $x$, ylabel: $y$,  
  show-grid: "major",  
  (fn: x => x, stroke: blue + 1.5pt),  
)
```

Preview



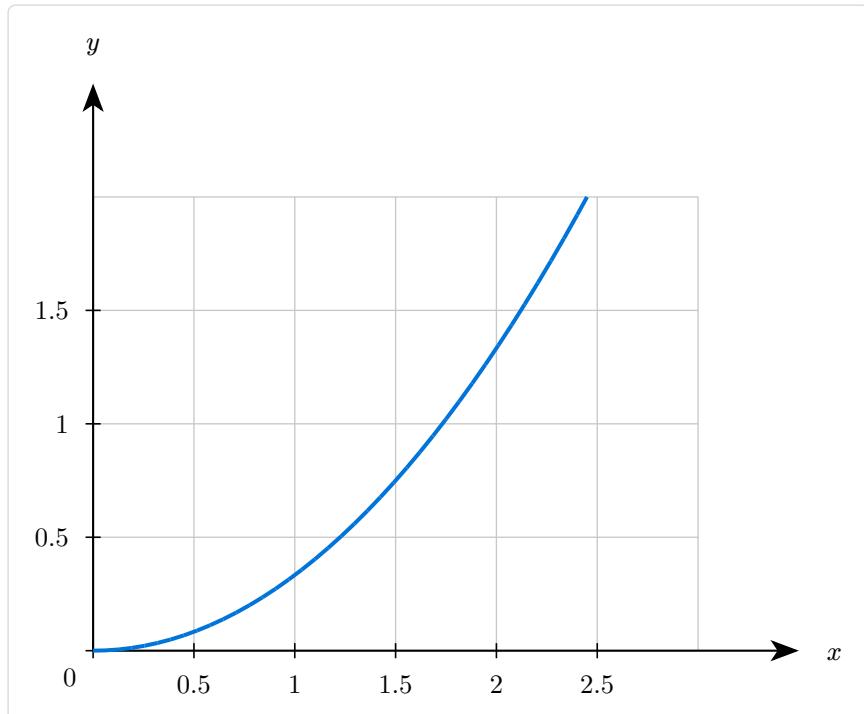
### 5.2. Custom Tick Step

Change tick spacing with `xtick-step` and `ytick-step`:

## Code

```
#plot(  
  width: 8, height: 6,  
  xmin: 0, xmax: 3, ymin: 0, ymax: 2,  
  xlabel: $x$, ylabel: $y$,  
  axis-x-pos: "bottom", axis-y-pos: "left",  
  xtick-step: 0.5,  
  ytick-step: 0.5,  
  show-grid: "major",  
  (fn: x => x * x / 3, stroke: blue + 1.5pt),  
)
```

## Preview



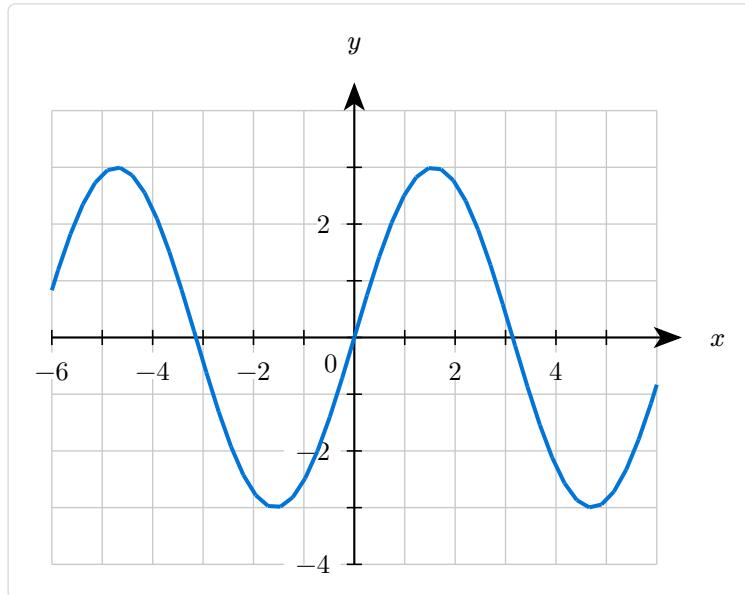
### 5.3. Tick Label Step

Show labels only at every N-th tick with `xtick-label-step` and `ytick-label-step`:

Code

```
#plot(
  width: 8, height: 6,
  xmin: -6, xmax: 6, ymin: -4, ymax: 4,
  xlabel: $x$, ylabel: $y$,
  xtick-label-step: 2, // Labels at -6, -4, -2, 2, 4, 6
  ytick-label-step: 2, // Labels at -4, -2, 2, 4
  show-grid: "major",
  (fn: x => calc.sin(x) * 3, stroke: blue + 1.5pt),
)
```

Preview



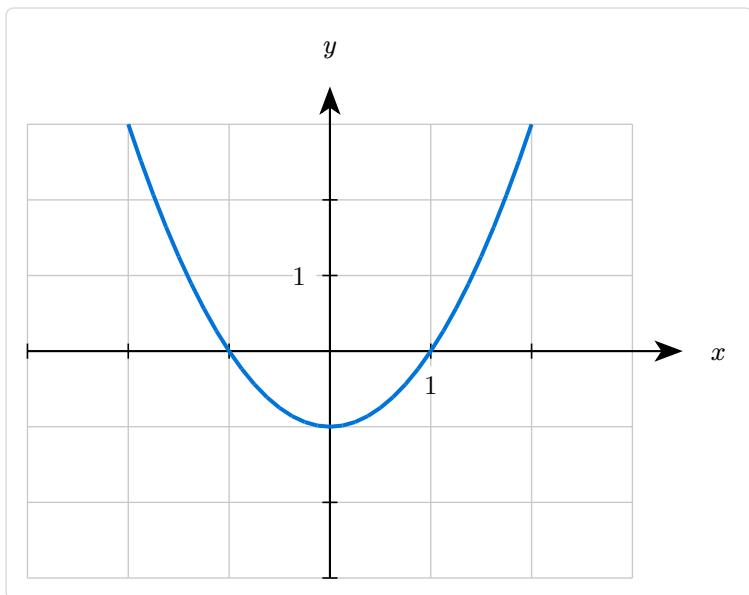
### 5.4. Unit Label Only

Show only “1” on each axis for a minimal style:

## Code

```
#plot(  
  width: 8, height: 6,  
  xmin: -3, xmax: 3, ymin: -3, ymax: 3,  
  xlabel: $x$, ylabel: $y$,  
  unit-label-only: true,  
  show-origin: false,  
  show-grid: "major",  
  (fn: x => x * x - 1, stroke: blue + 1.5pt),  
)
```

## Preview



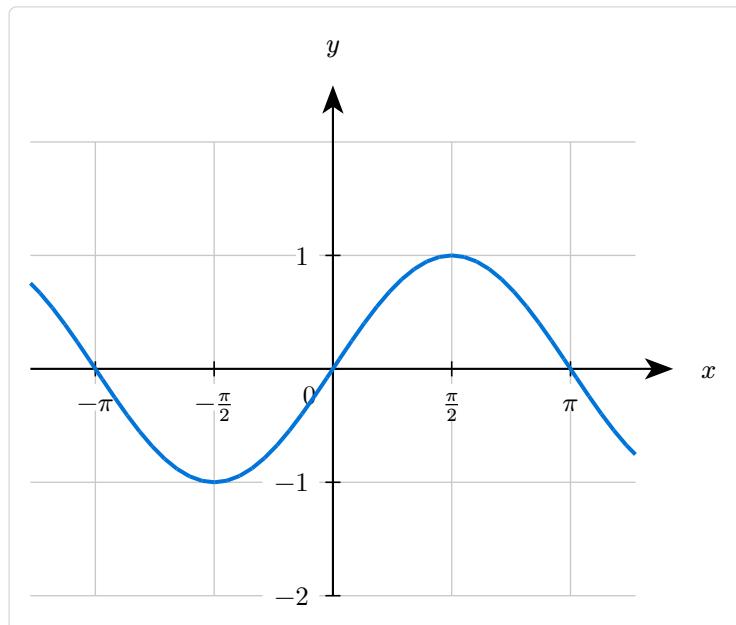
## 5.5. Custom Tick Positions

Specify exact tick positions with `xtick` and `ytick`:

Code

```
#plot(
  width: 8, height: 6,
  xmin: -4, xmax: 4, ymin: -2, ymax: 2,
  xlabel: $x$, ylabel: $y$,
  xtick: (-calc.pi, -calc.pi/2, 0, calc.pi/2, calc.pi),
  xtick-labels: ($-pi$, $-pi/2$, $0$, $pi/2$, $pi$),
  show-grid: "major",
  (fn: x => calc.sin(x), stroke: blue + 1.5pt),
)
```

Preview



## 5.6. Hide Origin Label

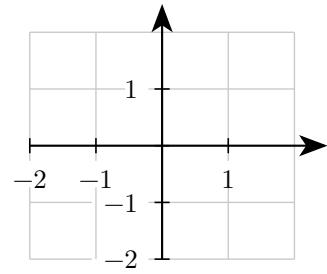
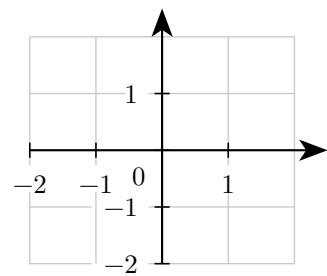
Control the “0” label at the origin:

## Code

```
// With origin (default)
#plot{
  width: 5, height: 4,
  xmin: -2, xmax: 2, ymin: -2, ymax: 2,
  show-origin: true,
  show-grid: "major",
}

// Without origin
#plot{
  width: 5, height: 4,
  xmin: -2, xmax: 2, ymin: -2, ymax: 2,
  show-origin: false,
  show-grid: "major",
}
```

## Preview



## 6. Markers

### 6.1. Available Marker Types

The following markers are available:

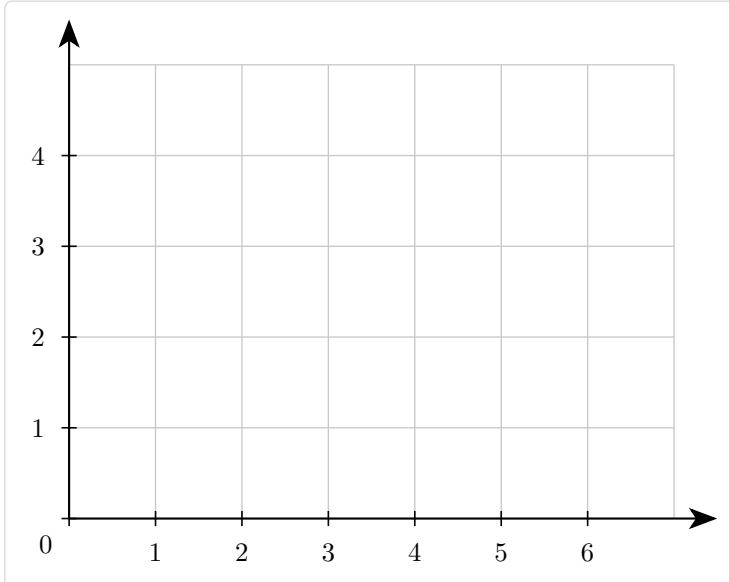
| Marker           | Description           |
|------------------|-----------------------|
| "o"              | Circle (outline)      |
| "*"              | Circle (filled)       |
| "square" / "s"   | Square (outline)      |
| "square*"'       | Square (filled)       |
| "triangle" / "^" | Triangle up (outline) |
| "triangle*"'     | Triangle up (filled)  |
| "diamond" / "d"  | Diamond (outline)     |
| "diamond*"'      | Diamond (filled)      |
| "star"           | Star (outline)        |
| "star*"'         | Star (filled)         |
| "+"              | Plus sign             |
| "x"              | Cross                 |
| " "              | Vertical bar          |
| "_"              | Horizontal bar        |

## 6.2. Using Markers

Code

```
#plot(
  width: 8, height: 6,
  xmin: 0, xmax: 7, ymin: 0, ymax: 5,
  axis-x-pos: "bottom", axis-y-pos: "left",
  show-grid: "major",
  (data: ((1, 1), (2, 2), (3, 2.5)), mark: "o", stroke: blue),
  (data: ((1, 2), (2, 3), (3, 3.5)), mark: "square*", stroke: red),
  (data: ((1, 3), (2, 4), (3, 4.2)), mark: "triangle", stroke: green),
)
```

Preview



## 7. Convenience Functions

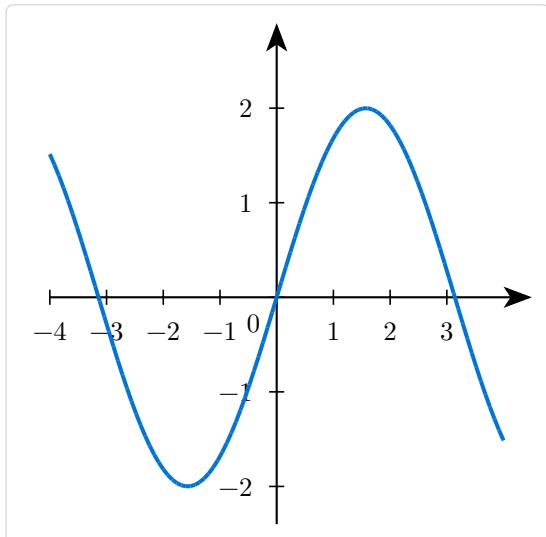
### 7.1. `plot-fn` - Quick Function Plot

Plot a single function with automatic y-scaling:

Code

```
#plot-fn(  
  x => calc.sin(x) * 2.0,  
  domain: (-4, 4),  
  stroke: blue + 1.5pt,  
)
```

Preview



### 7.2. `scatter` - Scatter Plot Helper

Create scatter plot specifications:

```
#let my-data = scatter(  
  ((1, 2), (2, 4), (3, 5)),  
  mark: "o",  
  stroke: blue,  
)  
#plot(xmin: 0, xmax: 4, ymin: 0, ymax: 6, my-data)
```

### 7.3. `line-plot` - Line Plot Helper

Create connected line plots:

```
#let my-line = line-plot(  
  ((1, 2), (2, 4), (3, 5)),  
  stroke: blue + 1pt,  
  mark: "o",  
)  
#plot(xmin: 0, xmax: 4, ymin: 0, ymax: 6, my-line)
```

### 7.4. `func-plot` - Function Plot Helper

Create function plot specifications:

```
#let my-func = func-plot(  
  x => calc.sin(x),
```

```
stroke: blue + 1.5pt,  
label: $sin(x)$,  
)  
#plot(xmin: -4, xmax: 4, ymin: -1.5, ymax: 1.5, my-func)
```

## 8. Global Configuration

### 8.1. Setting Defaults

Use `set-plot-defaults` to configure defaults for all subsequent plots:

```
#set-plot-defaults(  
  width: 8,  
  height: 6,  
  show-grid: "both",  
  minor-grid-step: 5,  
)  
  
// All plots will now use these defaults  
#plot(xmin: -3, xmax: 3, ymin: -2, ymax: 2, ...)
```

### 8.2. Resetting Defaults

Reset to original defaults:

```
#reset-plot-defaults()
```

## 9. Styling

### 9.1. Custom Styles

Override default styles with the `style` parameter:

```
#plot(
  xmin: -3, xmax: 3, ymin: -2, ymax: 2,
  style: (
    axis: (stroke: black + 1pt, arrow: "stealth"),
    grid: (
      major: (stroke: luma(180) + 0.6pt),
      minor: (stroke: luma(220) + 0.3pt),
    ),
    ticks: (
      length: 0.12,
      stroke: black + 0.6pt,
      label-size: 0.7em,
    ),
  ),
  ...
)
```

### 9.2. Default Style Values

| Property                        | Default                        | Description                 |
|---------------------------------|--------------------------------|-----------------------------|
| <code>axis.stroke</code>        | <code>black + 0.8pt</code>     | Axis line style             |
| <code>axis.arrow</code>         | <code>"stealth"</code>         | Arrow head style            |
| <code>grid.major.stroke</code>  | <code>luma(200) + 0.5pt</code> | Major grid line style       |
| <code>grid.minor.stroke</code>  | <code>luma(230) + 0.3pt</code> | Minor grid line style       |
| <code>ticks.length</code>       | <code>0.1</code>               | Tick mark length (cm)       |
| <code>ticks.stroke</code>       | <code>black + 0.6pt</code>     | Tick mark style             |
| <code>ticks.label-size</code>   | <code>0.65em</code>            | Tick label font size        |
| <code>ticks.label-offset</code> | <code>0.15</code>              | Distance from tick to label |
| <code>plot.stroke</code>        | <code>blue + 1.2pt</code>      | Default function stroke     |
| <code>plot.samples</code>       | <code>100</code>               | Default sample count        |
| <code>marker.size</code>        | <code>0.12</code>              | Default marker size         |
| <code>labels.size</code>        | <code>0.8em</code>             | Axis label font size        |

## 10. Parameter Reference

### 10.1. plot Function

Dimensions and Bounds:

| Parameter | Type  | Default | Description                  |
|-----------|-------|---------|------------------------------|
| width     | float | 6       | Plot width in cm             |
| height    | float | 6       | Plot height in cm            |
| scale     | float | 1       | Scale factor for entire plot |
| xmin      | float | auto    | Minimum x value              |
| xmax      | float | auto    | Maximum x value              |
| ymin      | float | auto    | Minimum y value              |
| ymax      | float | auto    | Maximum y value              |

Axis Configuration:

| Parameter     | Type         | Default  | Description                    |
|---------------|--------------|----------|--------------------------------|
| xlabel        | content      | none     | X-axis label                   |
| ylabel        | content      | none     | Y-axis label                   |
| xlabel-pos    | string/array | “end”    | “end”, “center”, or (x, y)     |
| ylabel-pos    | string/array | “end”    | “end”, “center”, or (x, y)     |
| xlabel-anchor | string       | “west”   | Anchor for x label             |
| ylabel-anchor | string       | “south”  | Anchor for y label             |
| xlabel-offset | array        | (0.3, 0) | X label offset (cm)            |
| ylabel-offset | array        | (0, 0.3) | Y label offset (cm)            |
| axis-x-pos    | string/float | 0        | “bottom”, “center”, or y-value |
| axis-y-pos    | string/float | 0        | “left”, “center”, or x-value   |
| axis-x-extend | float/array  | (0, 0.5) | X-axis extension (left, right) |
| axis-y-extend | float/array  | (0, 0.5) | Y-axis extension (bottom, top) |

Tick Configuration:

| Parameter        | Type       | Default | Description                |
|------------------|------------|---------|----------------------------|
| xtick            | array/none | auto    | Custom x tick positions    |
| ytick            | array/none | auto    | Custom y tick positions    |
| xtick-step       | float      | 1       | X tick spacing             |
| ytick-step       | float      | 1       | Y tick spacing             |
| xtick-labels     | array/none | auto    | Custom x tick labels       |
| ytick-labels     | array/none | auto    | Custom y tick labels       |
| xtick-label-step | int        | 1       | Show x label every N ticks |
| ytick-label-step | int        | 1       | Show y label every N ticks |

|                              |        |        |                       |
|------------------------------|--------|--------|-----------------------|
| <code>show-origin</code>     | bool   | true   | Show “0” at origin    |
| <code>unit-label-only</code> | bool   | false  | Show only “1” on axes |
| <code>tick-label-size</code> | length | 0.65em | Tick label font size  |
| <code>axis-label-size</code> | length | 0.8em  | Axis label font size  |

## Grid Configuration:

| Parameter        | Type        | Default | Description                           |
|------------------|-------------|---------|---------------------------------------|
| show-grid        | bool/string | false   | true, false, “major”, “minor”, “both” |
| minor-grid-step  | int         | 5       | Subdivisions per major tick           |
| grid-label-break | bool        | true    | Break grid lines around labels        |

## Styling:

| Parameter | Type       | Default | Description     |
|-----------|------------|---------|-----------------|
| style     | dictionary | none    | Style overrides |

## 10.2. Function/Data Specification

Each plot item is a dictionary with these fields:

| Field        | Type         | Description                                    |
|--------------|--------------|--|
| fn           | function     | Function to plot: $x \Rightarrow y$            |
| data         | array        | Data points: $((x_1, y_1), (x_2, y_2), \dots)$ |
| domain       | array        | Function domain: $(x_{\min}, x_{\max})$        |
| samples      | int          | Number of samples for function                 |
| stroke       | stroke       | Line style                                     |
| mark         | string       | Marker type                                    |
| mark-size    | float        | Marker size in cm                              |
| mark-fill    | color        | Marker fill color                              |
| label        | content      | Label text                                     |
| label-pos    | string       | “above”, “below”, “left”, “right”              |
| label-at     | float/string | x-position or “start”/“end”/“center”           |
| label-anchor | string       | Text anchor point                              |

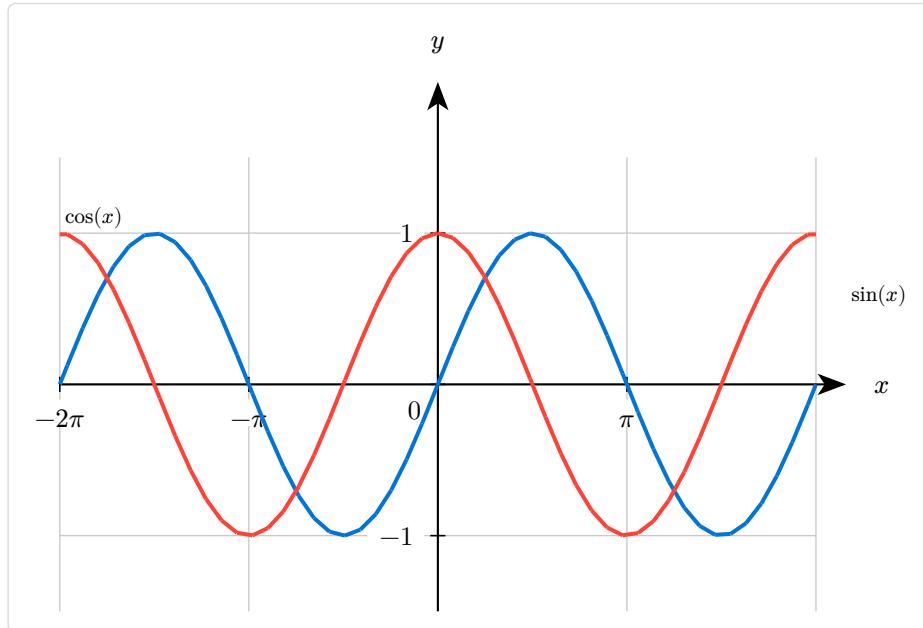
## 11. Complete Examples

### 11.1. Trigonometric Functions

Code

```
#plot(
  width: 10, height: 6,
  xmin: -2 * calc.pi, xmax: 2 * calc.pi,
  ymin: -1.5, ymax: 1.5,
  xlabel: $x$, ylabel: $y$,
  xtick: (-2*calc.pi, -calc.pi, 0, calc.pi, 2*calc.pi),
  xtick-labels: (-$2\pi$, $-\pi$, $0$, $\pi$, $2\pi$),
  show-grid: "major",
  (fn: x => calc.sin(x), stroke: blue + 1.5pt, label: $sin(x)$, label-pos: 1),
  (fn: x => calc.cos(x), stroke: red + 1.5pt, label: $cos(x)$, label-pos: 0),
)
```

Preview

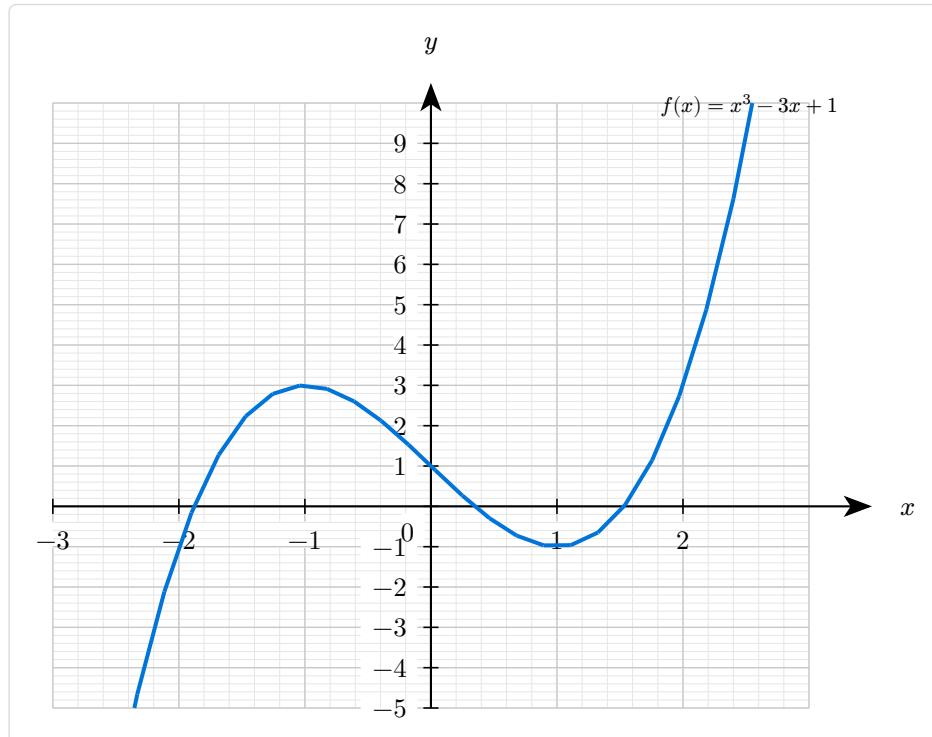


## 11.2. Polynomial with Fine Grid

Code

```
#plot(
  width: 10, height: 8,
  xmin: -3, xmax: 3, ymin: -5, ymax: 10,
  xlabel: $x$, ylabel: $y$,
  show-grid: "both",
  minor-grid-step: 5,
  (
    fn: x => x * x * x - 3 * x + 1,
    stroke: blue + 1.5pt,
    label: $f(x) = x^3 - 3x + 1$,
    label-side: "above",
    label-pos: 0.85,
  ),
)
```

Preview

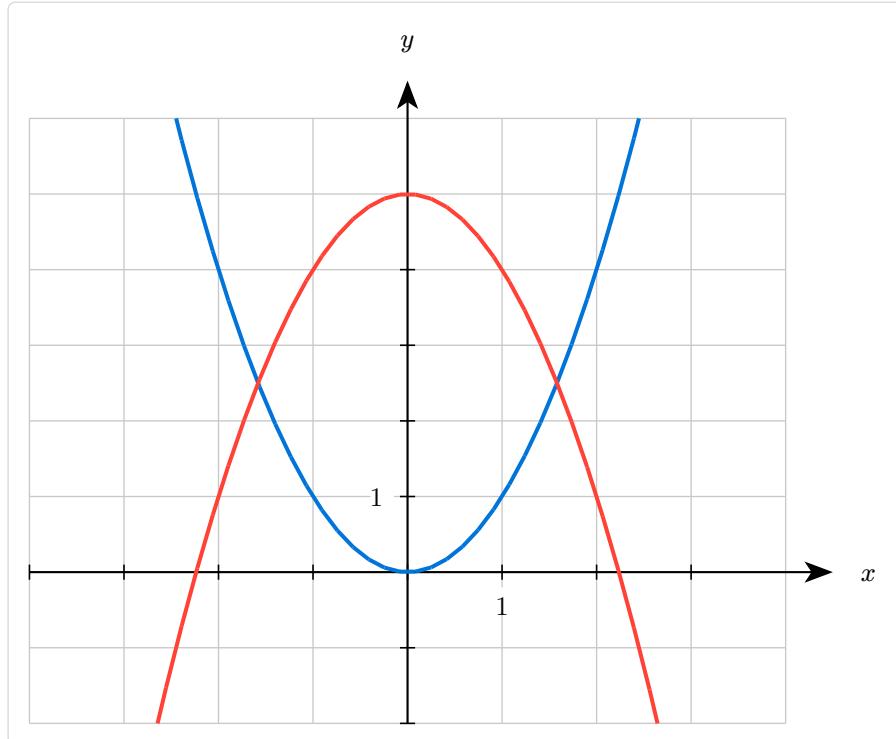


### 11.3. Minimal Style Plot

Code

```
#plot(
  width: 10, height: 8,
  xmin: -4, xmax: 4, ymin: -2, ymax: 6,
  xlabel: $x$, ylabel: $y$,
  show-grid: "major",
  unit-label-only: true,
  show-origin: false,
  (fn: x => x * x, stroke: blue + 1.5pt),
  (fn: x => -x * x + 5, stroke: red + 1.5pt),
)
```

Preview



## 11.4. Data with Trend Line

Code

```
#plot(
  width: 10, height: 7,
  xmin: 0, xmax: 6, ymin: 0, ymax: 12,
  xlabel: "Time (s)", ylabel: "Distance (m)",
  axis-x-pos: "bottom", axis-y-pos: "left",
  show-grid: "both",
  minor-grid-step: 5,
  (fn: x => 2 * x, stroke: gray + 1pt, domain: (0, 6)), // Trend line
  (
    data: ((0.5, 1.2), (1, 2.3), (2, 3.8), (3, 6.2), (4, 7.9), (5, 10.1)),
    mark: "o",
    mark-size: 0.12,
    stroke: none,
  ),
)
```

Preview

