



## **Events flow for the use case “Build one more graphic”**

### Short description

This event called when user wants to superimpose the graphic on another one.

### Main events flow

1. User choose the ability of showing another graphic
2. Another function parser area showed

### Alternative events flow

1. User can delete one graphic, if this number more than 1
2. Another function parser area is closed

### Error events flow

No user errors, cuz "add/remove graphic" actions accessibility checks by the application.

### Post conditions

1. Another text field shows
2. Another graphic after parsing will show in the same coordinate plane.

## **Events flow for the use case “Enter function”**

### Short description

This event is available during application working.

### Main events flow

1. The special text field is showing during the application working
2. User inputs function
3. Parser called after any changes in the text field

### Alternative events flow

No alternative events.

### Error events flow

1. Parser returned error value
2. Special text area highlighted with red.

#### Post conditions

1. Graphic's builder calls.

### **Events flow for the use case “Show graphic”**

#### Short description

This event called after successfully parse of the function.

#### Main events flow

1. If the function parsed correctly, it goes to this class
2. Graphic builds point by point in necessary scale
3. Graphic shows in the widget

#### Alternative events flow

1. Graphic builds over another
2. Coordinates of cusps highlighted in the widget.

#### Error events flow

1. During building graphic any errors occurred
2. Function parser called again
3. Widget highlight with red.

#### Post conditions

1. Function showing calls.

### **Events flow for the use case “Zoom in/out”**

#### Short description

This event called if user wants to double tap zoom the graphic widget.

#### Main events flow

1. User double tap zoom in/out graphic widget
2. The graphic's scale is changing

#### Alternative events flow

No alternative events.

#### Error events flow

1. Function's range of values finished
2. Graphic building stopped.

#### Post conditions

No post conditions.

### **Events flow for the use case “Scroll graphic along the axes”**

#### Short description

This event called if user wants to scroll the graphic widget.

#### Main events flow

1. User scroll graphic's widget
2. Widget shows further graphic's behavior during one of the axes

#### Alternative events flow

No alternative events.

#### Error events flow

1. Function's range of values finished
2. Graphic building stopped.

#### Post conditions

No post conditions.