

A stylized illustration of a desk setup. In the center is an open laptop with a teal screen and a pink keyboard. To the left of the laptop is a stack of three books in teal, orange, and teal. Below the books is a potted plant with long, pointed leaves in teal and orange, sitting in an orange pot. To the right of the laptop is a teal pen holder with a pink base, containing three pens in orange, teal, and orange. Above the laptop is a teal folder or book with a white border and a pattern of small white crosses. In the bottom right corner, there is a stylized illustration of a computer monitor with a pink screen and a white frame.

5 НЕДЕЛЯ

Поток жидкости и теплообмен в смесительном колоне

Компьютерная графика в вычислениях

Методы решения



Solution Methods

Pressure-Velocity Coupling

Scheme
SIMPLE

Spatial Discretization

Gradient
Green-Gauss Node Based

Pressure
Second Order

Momentum
Second Order Upwind

Turbulent Kinetic Energy
First Order Upwind

Turbulent Dissipation Rate
First Order Upwind

Transient Formulation

☐ Non-Iterative Time Advancement

☐ Frozen Flux Formulation

☐ Pseudo Transient

☒ Warped-Face Gradient Correction

☐ High Order Term Relaxation

Options...

Default

Help

Reports

Residuals... Convergence...

Definitions File... Plot...

Residual Monitors

Options

☒ Print to Console

☒ Plot

Window
1

Iterations to Plot
1000

Iterations to Store
1000

Equations

Residual	Monitor Check	Convergence	Absolute Criteria
continuity	☒	☒	0.001
x-velocity	☒	☒	0.001
y-velocity	☒	☒	0.001
z-velocity	☒	☒	0.001

Residual Values

☐ Normalize

☒ Scale

☐ Compute Local Scale

Iterations
5

Convergence Criterion
absolute

OK Plot Renormalize Cancel Help

Surface Report Definition

Name
temp-outlet-0

Report Type
Facet Maximum

Options

☐ Per Surface

Average Over
1

Field Variable
Temperature...

Static Temperature

Surfaces
interior-fluid
pressure-outlet
symmetry
velocity-inlet-large
velocity-inlet-small
wall-fluid

Report Files [0/0]

Report Plots [0/0]

Create

☒ Report File

☒ Report Plot

Frequency 3

☐ Print to Console

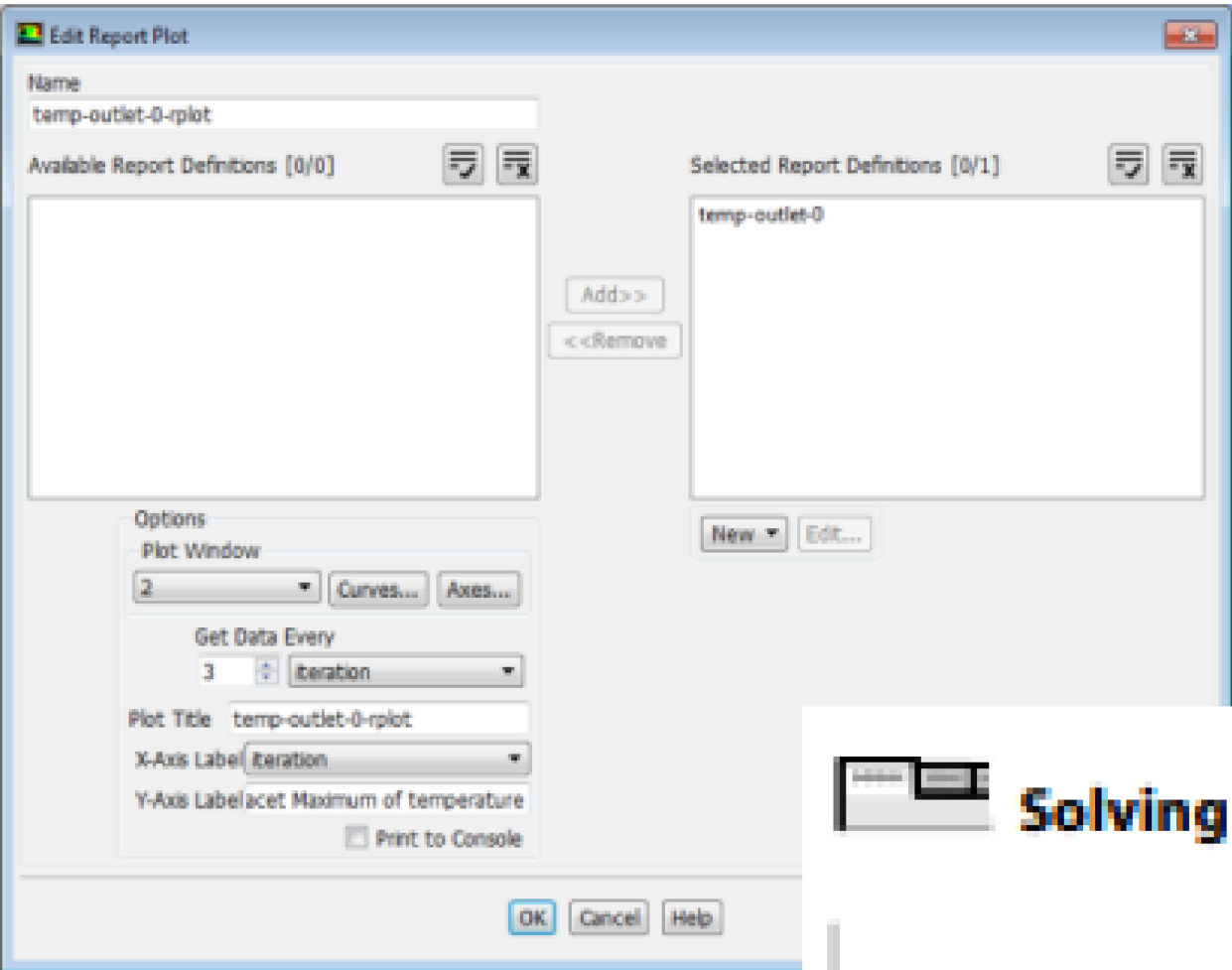
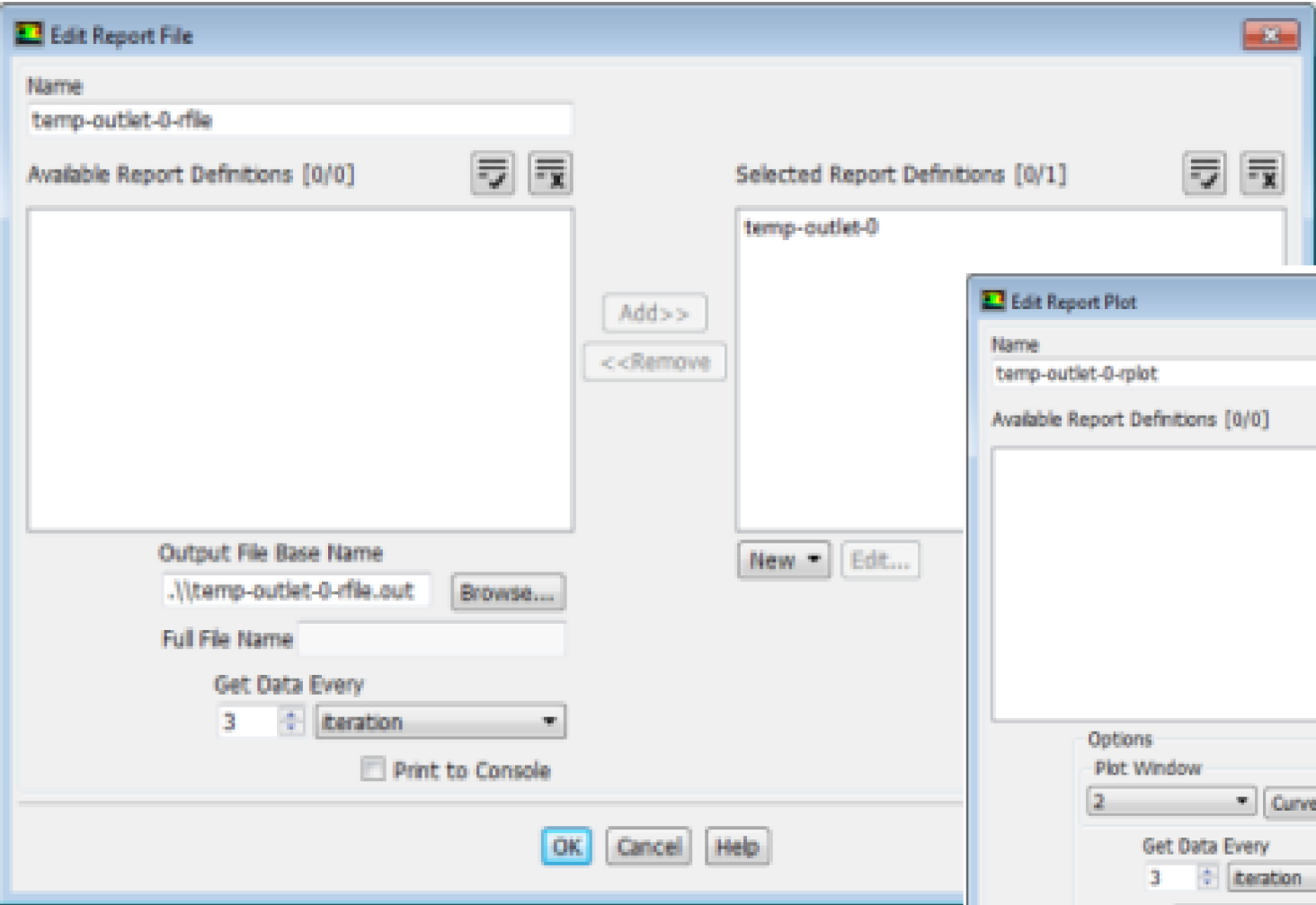
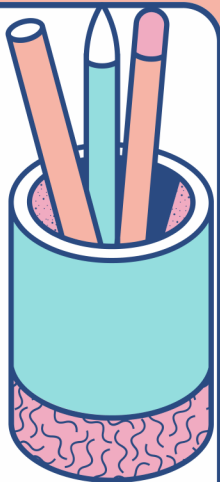
☐ Create Output Parameter

Highlight Surfaces

New Surface

OK Compute Cancel Help

Настройка домена



 Solving → Initialization

Initialization

Method

☒ Hybrid

☐ Standard

More Settings...

Options...

Patch...

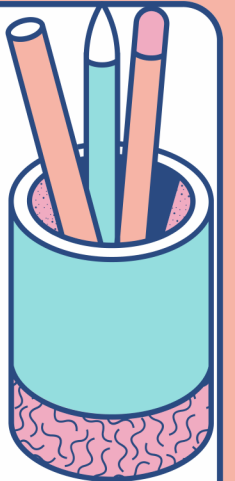
Reset Statistics

Reset DPM

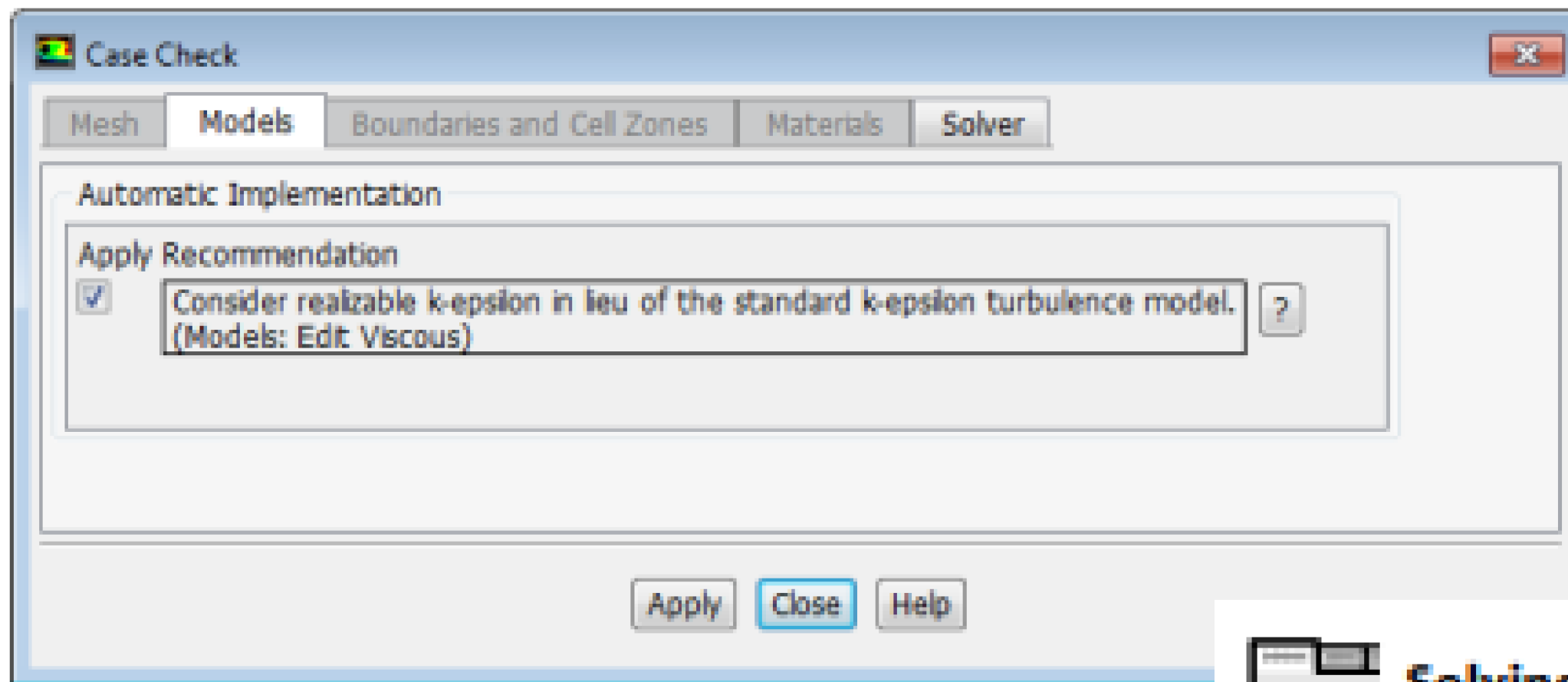


t = 0
Initialize

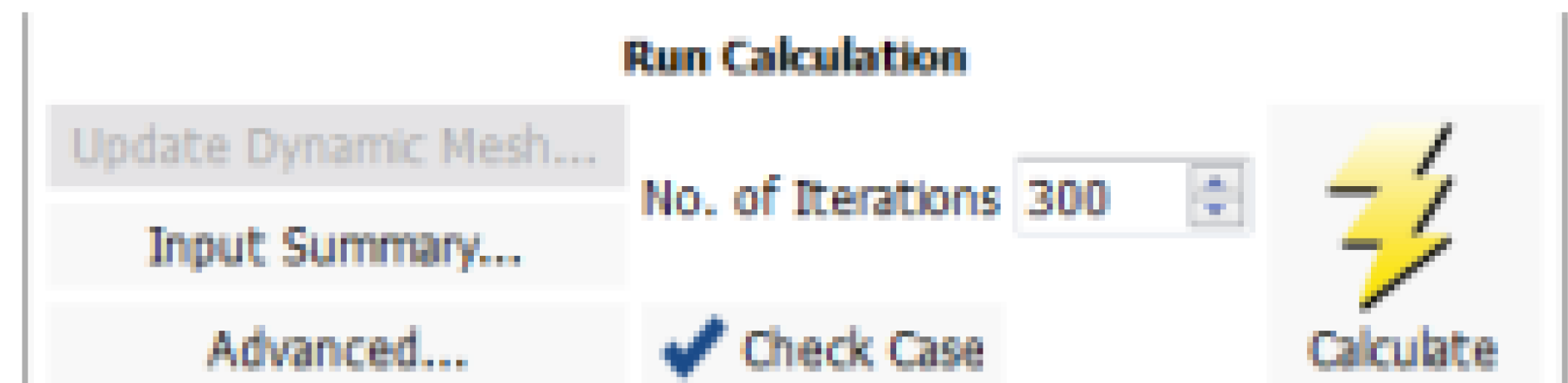
Настройка физики



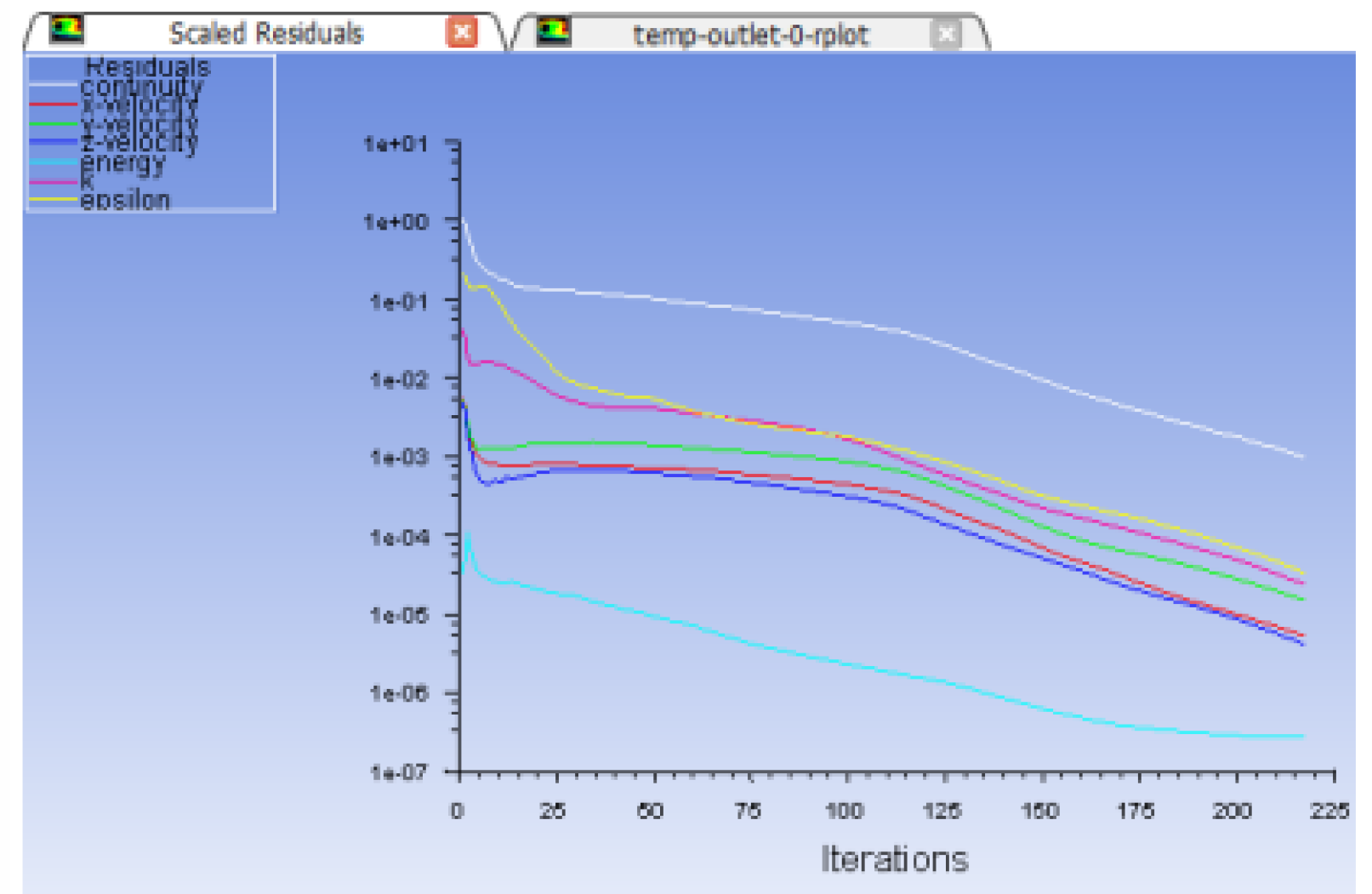
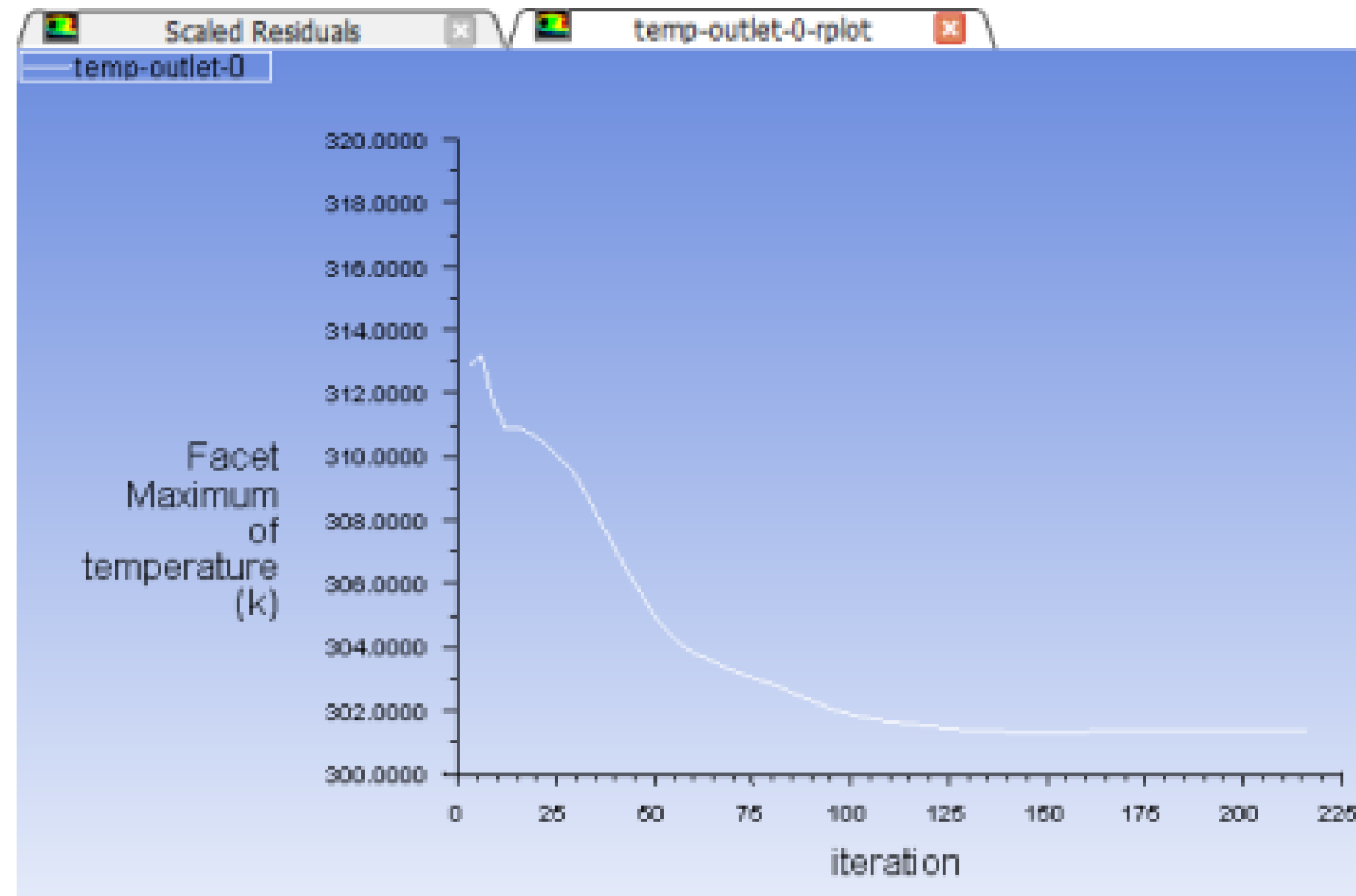
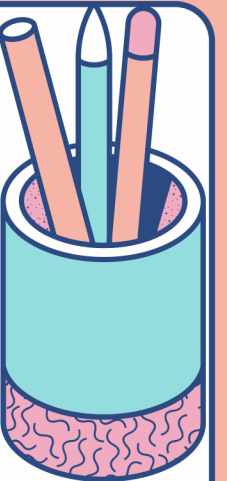
 **Solving** → **Run Calculation** → **Check Case**



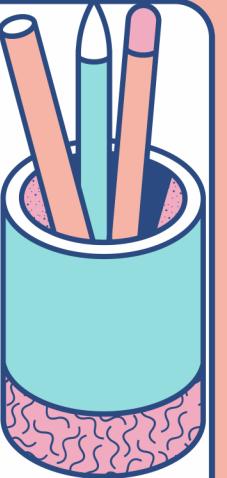
 **Solving** → **Run Calculation**



Настройка физики



Результаты

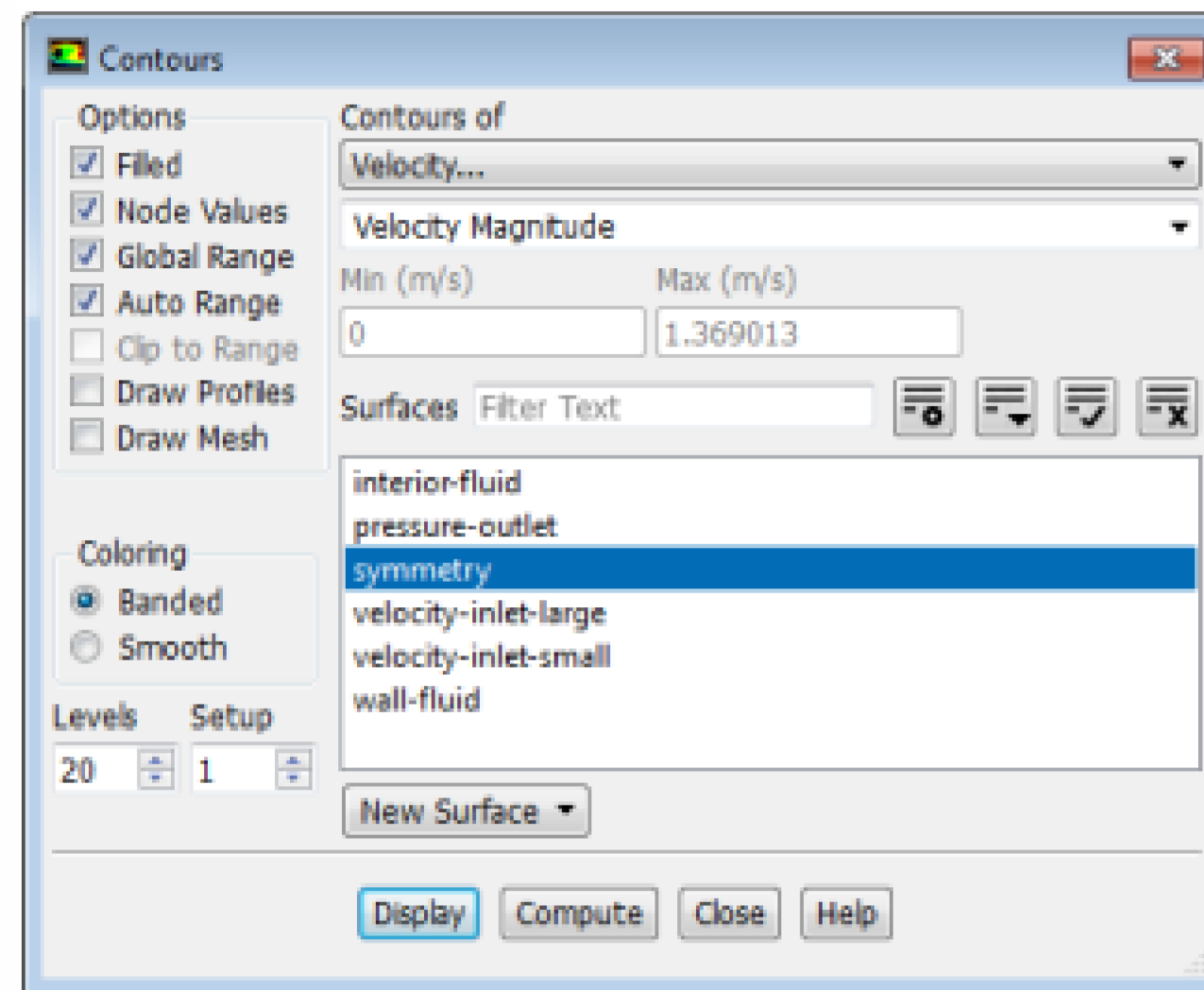


	A		
1		Fluid Flow (Fluent)	
2		Geometry	✓
3		Mesh	✓
4		Setup	✓
5		Solution	✓
6		Results	

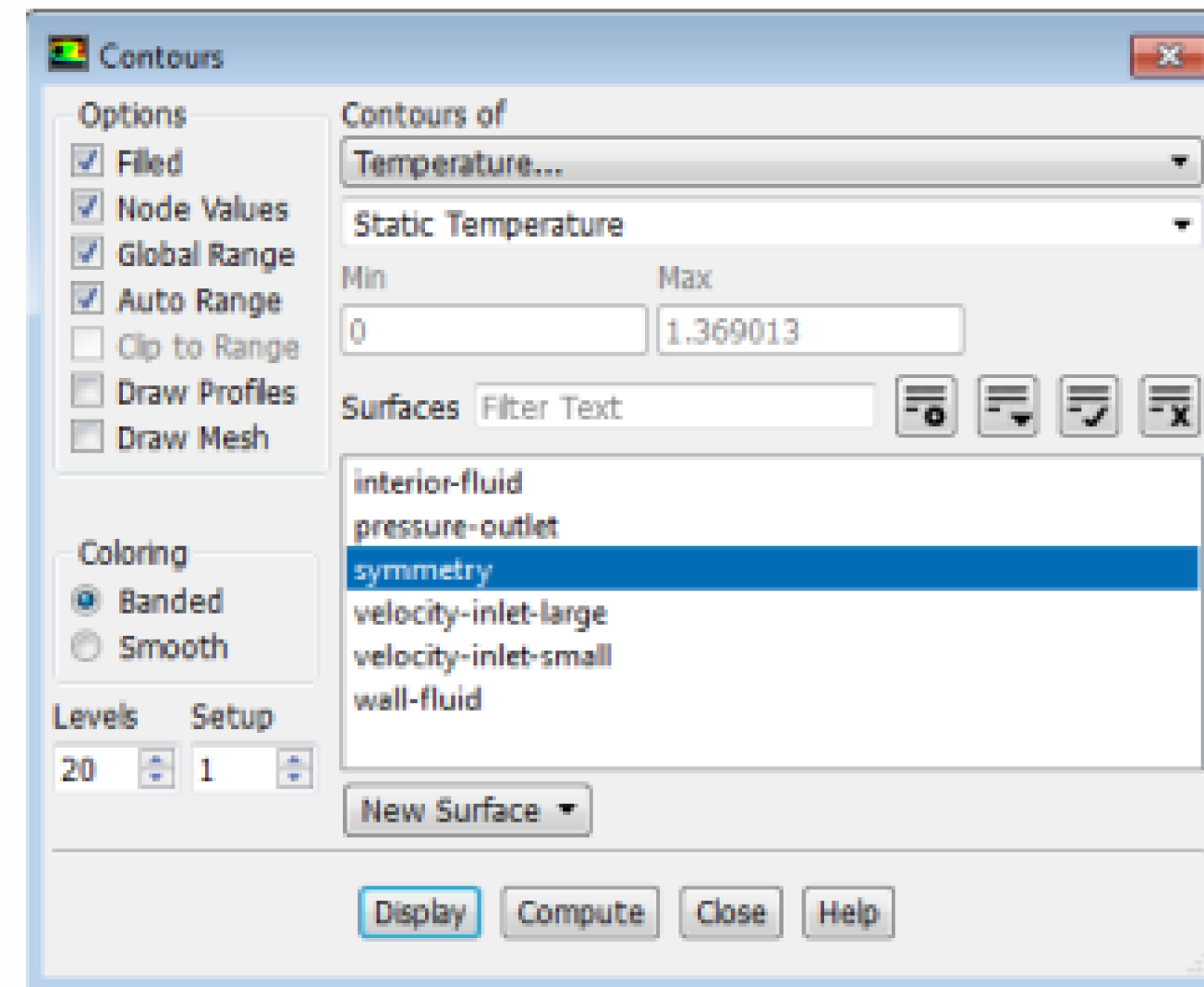
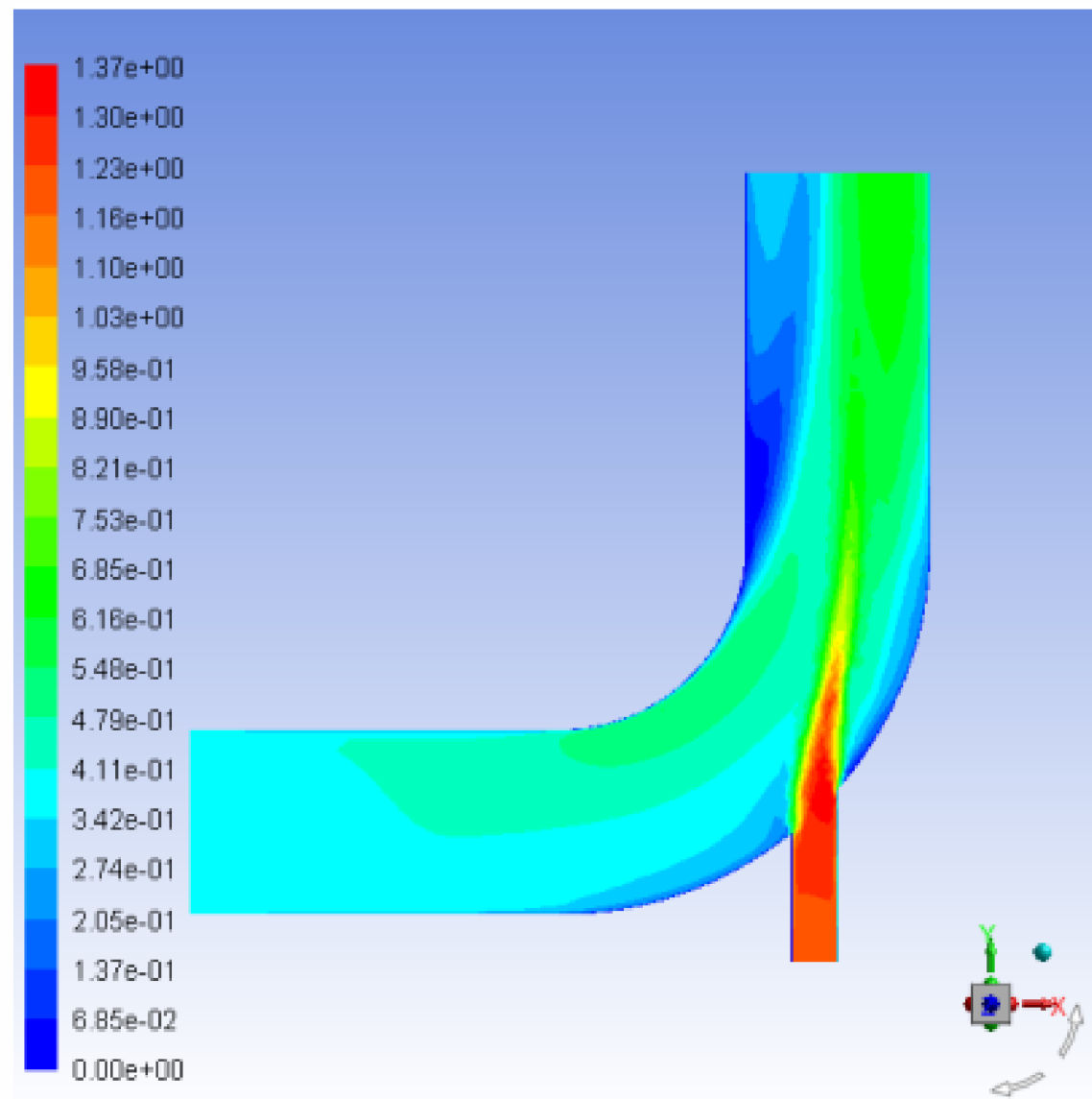
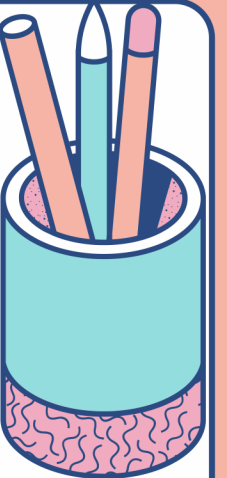
elbow



Postprocessing → Graphics → Contours → Edit...



Результаты



Результаты

