

$$f(z) = z^2 + c \text{ where } c \text{ is of the form } a+bi$$

$$c = 0.6 + 0.55i$$

$$f(z) = z^2 + c$$

$$c = -0.7269 + 0.1i$$

ptc<sup>®</sup> mathcad prime 10<sup>®</sup>

$$-2) + (\phi - 1) i$$

$$f(z) = z - \left( \frac{(z^3 - 1)}{3z^2} \right)$$

$$f(z) = \frac{\left( \frac{1 - z^3}{6} \right)}{\left( z - \frac{z^2}{2} \right)^2}$$



## Compare our free and full versions

**PTC Mathcad Prime** is the industry standard for engineering mathematics software, and buying a license gets you access to all the latest product developments and full product functionality. With **PTC Mathcad Express** however, you can **trial full functionality for 30 days** after which you can get basic functionality.

Use the table to understand what features you'll miss out on if you don't upgrade to the full version.

	Mathcad Express	Prime 10
PTC Mathcad Capabilities	PTC Mathcad Express	PTC Mathcad Prime (Full License)
<b>Usability</b>		
Write equations using natural math notation	✓	✓
Spell Check	•	✓
Internal and External Hyperlinks in Text	•	✓
Custom Margin, Header, Footer Sizes	•	✓
Redefinition Warnings	•	✓
Watermark and Start Page	✓	•
<b>Basic Math</b>		
Automatic update of calculations	✓	✓
Algebra and trigonometry operators and functions	✓	✓



### Documentation

Comprehensive documentation	✓	✓
Text Styles	•	✓
Standardize engineering processes using templates	•	✓
Copying Worksheet Regions to a Word/PowerPoint Document	One at a time	✓
Content Protection	•	✓
Equation Wrapping	•	✓
Custom Color Picker	•	✓

### Plotting

X-Y plots	✓	✓
Advanced plot types: Polar Contour, 3D	•	✓

### Advanced Math

Programming	•	✓
Solve systems of linear, non-linear and differential equations	•	✓
Evaluate expressions symbolically	•	✓
Advanced Engineering Mathematics: e.g. Design of Experiments, Differential Equations, Solving Regression	•	✓
Advanced Numeric Functions: e.g. Fourier Transforms, Signal Processing, Statistics & Data Analysis	•	✓
Choice of solving algorithms for applicable functions	•	✓

### Input/Output

API Guide	✓	✓
Include worksheet region	•	✓
Excel Component	•	✓
Basic Combo-box Input Control	•	✓
Advanced scripted controls	•	✓
Insert Object	•	✓

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