$f(z) = z^2 + c$ *where c is of the form a+bi*

$c = 0.6 + 0.55i$

$(z) = z^2 + c$

$c = -0.7269 + 0.1$

ptc® mathcad prime 10®

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

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

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

PTC Mathcad is an engineering calculation solution that helps you design better products faster. With PTC Mathcad, you have the power to do highly accurate engineering calculations and then easily share this critical IP. The powerful math engine and intuitive documentation front-end of PTC Mathcad can handle the simplest equations or the most complex multi-step engineering analysis. It is a vital first step in your product digital design definition.

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CHART

PTC Mathcad Prime Version comparison	3.1	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Capability								
Math Formatting	•	•	•	•	•	•	•	•
Worksheet Templates	•	•	•	•	•	•	•	•
Math in Text	•	•	•	•	•	•	•	•
Global Definition	•	•	•	•	•	•	•	•
Custom Functions	•	•	•	•	•	•	•	•
Engineering Notebook Creo Integration	•	•	•	•	•	•	•	•
API	•	•	•	•	•	•	•	•
Area Protection and Locking		•	•	•	•	•	•	•
Mathcad as an OLE container		•	•	•	•	•	•	•
Save as RTF		•	•	•	•	•	•	•
Copy/Paste to Word		•	•	•	•	•	•	•
Equation Wrapping		•	•	•	•	•	•	•
Large Worksheet Handling	•	•	•	•	•	•	•	•
2D Chart Component			•	•	•	•	•	•
New Symbolics Engine					•	•	•	•
Custom Margins, Headers and Footers					•	•	•	•
Spellcheck					•	•	•	•
Hyperlinks					•	•	•	•
Combo-box Input Control						•	•	•
API Guide						•	•	•
Save As PDF						•	•	•
Standalone Legacy Worksheet Converter						•	•	•
Zoom, Scroll and Focus Enhancements						•	•	•
Redefinition warnings						•	•	•
Partial derivative operator						•	•	•
Show frame						•	•	•
Legacy worksheet viewer						•	•	•
Worksheet tab and zoom enhancements						•	•	•
Windows 11 support						•	•	•
Text Styles							•	•
Gradient Operator							•	•
Internal Links							•	•
Partial Differential Equation Solver							•	•
Symbolic Solving with Solve Block							•	•
Symbolic Solving of Ordinary Differential Equations							•	•
Custom color picker							•	•
Go-to Page							•	•
Advanced scripted controls								•
Subscript and superscript in text								•
Choice of solving algorithms for applicable functions								•