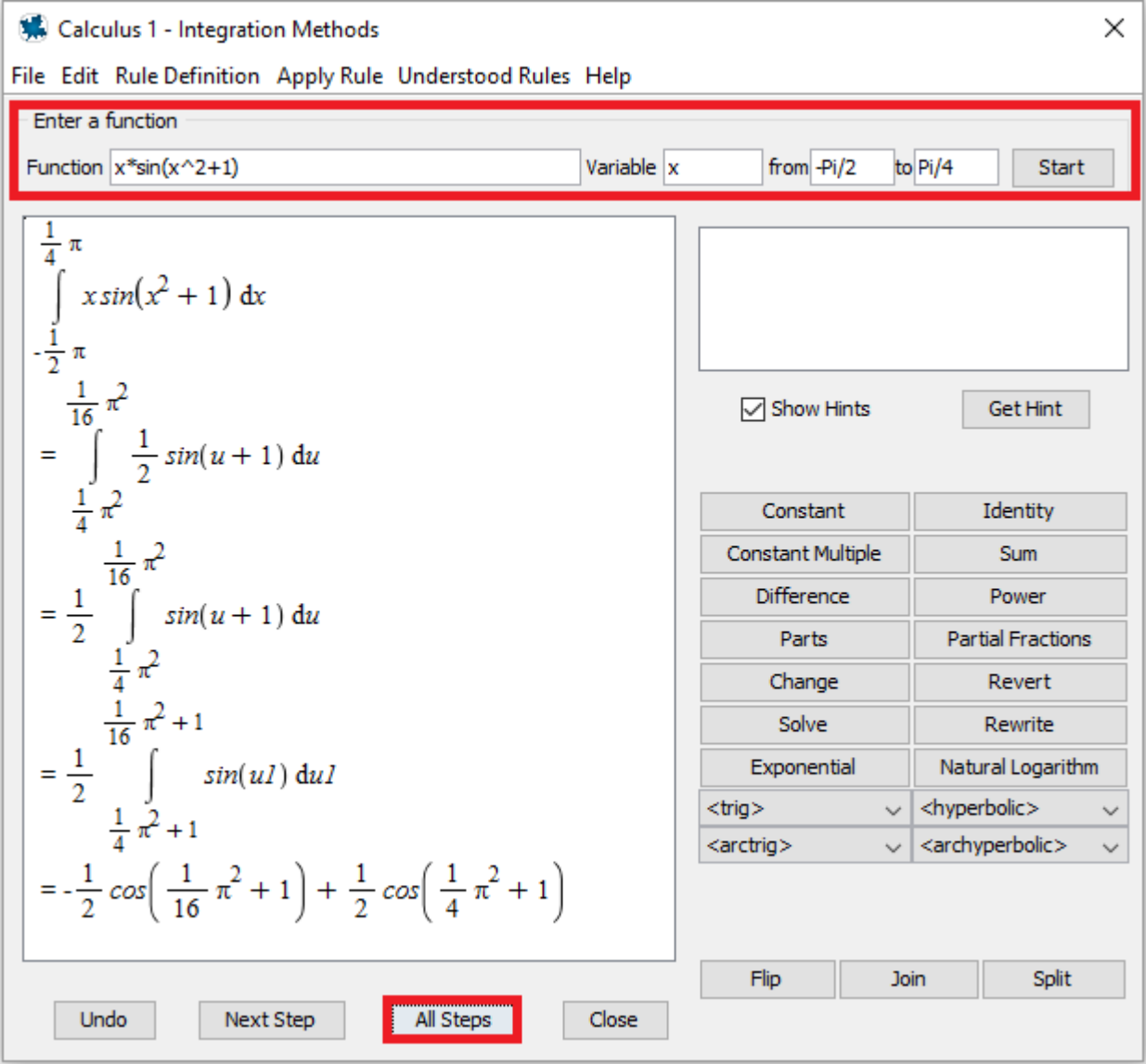
Calculus 1 - Integration Methods
File Edit Rule Definition Apply Rule Understood Rules Help
Enter a function
Function x*sin(x^2+1)
Variable x
from -Pi/2
to Pi/4
Start
$\int_{-\frac{1}{2}\pi}^{\frac{1}{4}\pi} x\sin(x^2+1)\,dx$
$= \int_{\frac{1}{4}\pi^2}^{\frac{1}{16}\pi^2} \frac{1}{2}\sin(u+1)\,du$
$= \frac{1}{2}\int_{\frac{1}{4}\pi^2}^{\frac{1}{16}\pi^2} \sin(u+1)\,du$
$= \frac{1}{2}\int_{\frac{1}{4}\pi^2+1}^{\frac{1}{16}\pi^2+1} \sin(u1)\,du1$
$= -\frac{1}{2}\cos\left(\frac{1}{16}\pi^2+1\right) + \frac{1}{2}\cos\left(\frac{1}{4}\pi^2+1\right)$
Show Hints
Get Hint
Constant
Identity
Constant Multiple
Sum
Difference
Power
Parts
Partial Fractions
Change
Revert
Solve
Rewrite
Exponential
Natural Logarithm
<trig>
<hyperbolic>
<arctrig>
<archyperbolic>
Flip
Join
Split
Undo
Next Step
All Steps
Close