(2/w)\*sqrt(log(2)/pi)\*exp(-4\*log(2)\*((v-v0)/w)\*\*2)

Now for Voigt:

Or starting from k=1:

https://mathworld.wolfram.com/JacobiThetaFunctions.html

Gaussian:

Expand the cosh:

Write exp as sinh/cosh:

=

Combine sinh/cosh terms:

=

Cleanup:

=

It becomes shady from here…

Continue with sinh:

Let’s do for x=0: