

$$\frac{1}{\pi} \left(\frac{A_1}{\gamma_1 \left(1 + \left(\frac{x - \mu_1}{\gamma_1} \right)^2 \right)} + \frac{A_2}{\gamma_2 \left(1 + \left(\frac{x - \mu_2}{\gamma_2} \right)^2 \right)} \right)$$