EQUATIONS A

- **EQUATION A1 (0 ≤ δ ≤ 10)**

The first equation is that obtained from cluster 3 (10032 points):

$$w_{p,1} = \frac{\sin\left[\dfrac{\cos\left[\dfrac{x1}{0.64298004}\right] * \left(1.1177524 - \sqrt{x1 + 0.12301053} * \left(x3 * \left(-0.308592223\right)\right)\right)}{\exp\left[\sqrt{Abs\left[\sin\left[x1\right]\right]}\right] + x2}\right]}{0.7620047}$$

Simplified expression:

$$1.3123278635945421 \sin\left[\frac{\left(1.1177524 + 0.308592223 * \sqrt{0.12301053 + x1} * x3\right)\cos\left[1.555258231655216 * x1\right]}{e^{\sqrt{Abs\left[\sin\left[x1\right]\right]}} + x2}\right]$$

- **EQUATION A2 (10 ≤ δ ≤ 100)**

The second equation is that obtained from cluster 1 (3648 points):

$$w_{p,2} = \left(\cos\left[\frac{x1}{\cos\left[x1 + x2 * \left(-0.05781669\right)\right]}\right] - \left(\log\left[Abs\left[x3 - x2\right]\right] - x2\right) * \left(-0.1561581\right)\right) - \\ - \sin\left[x2 * \left(-0.7405541\right)\right] * \left(-0.16037743\right)$$

Simplified expression:

$$w_{p,2} = -0.1561581 * x2 + \cos\left[x1 * \sec\left[x1 - 0.05781669 * x2\right]\right] + 0.1561581 * \log\left[Abs\left[x2 - x3\right]\right] - \\ - 0.16037743 * \sin\left[0.7405541 * x2\right]$$

- **EQUATION A3 (100 ≤ δ ≤ 1000)**

The third equation is that obtained from cluster 7 (3648 points):

$$w_{p,3} = \left(\cos\left[x1 * \left(x1 + \frac{x1}{3.4380245}\right)\right] - \sin\left[\frac{x2}{x3 + x2 * x2} * 5.036935\right]\right) * 1.4902859 - x2 * 0.017806036$$

Simplified expression:

$$w_{p,3} = -0.017806036 * x2 + 1.4902859 * \cos\left[1.290864710242757 * x1^2\right] - 1.4902859 * \sin\left[\frac{5.036935 * x2}{x2^2 + x3}\right]$$