

Stirling Difference Formula

$$P(x) = y_0 + p \mu \delta y_0 + p^2 \frac{\delta^2 y_0}{2!} + p \frac{(p^2 - 1)}{3!} \mu \delta^3 y_0$$

$$+ p^2 \frac{(p^2 - 1)}{4!} \delta^4 y_0$$