

Mon	Tue	Wed	Thu	Fri	Sat	Sun

Date:_____

DGans Forward.

$$y = y_0 + \rho \Delta y_0 + \rho(\rho-1)\Delta^2 y_1 + \rho(\rho+1)(\rho-1)\Delta^3 y_{-1} + 2i 3i$$

Quus Backward:

$$y = y + \rho(\Delta y) + \frac{(\rho-1)}{21} \Delta^2 y + \frac{\rho(\rho-1) + \rho(\rho-1)(\rho-2)}{21}$$

$$\frac{4p = 2.423 + 0.5(-1.395) + (0.5)(0.5-1)(-2.055)}{2!}$$

5 Stirling Formula:

$$\frac{y}{p} = y_0 + P\left[\frac{\Delta y_0 + \Delta y_{-1}}{2}\right] + \frac{\rho^2}{a!} \frac{\Delta^2 y_{-1}}{3!} + \frac{\rho(\rho^2 - 1^2)}{3!} \left[\frac{\Delta^3 y_{-1}}{2} + \frac{\Delta^3 y_{-2}}{2}\right] + .$$

Bessel's Formula:

$$\frac{y_{p} = y_{o} + y_{1} + \left(p - \frac{1}{2}\right) \Delta y_{0} + p\left(p - 1\right) \left(\Delta^{2} y_{1} + \Delta^{2} y_{0}\right)}{\lambda!}$$

$$\frac{\left(p-\frac{1}{2}\right)p\left(p-1\right)}{3!}\cdot \Delta^{3}y_{-1}+\cdots \cdot \frac{y_{p}-\frac{2\cdot 423-1\cdot 022}{2}+\left(0\cdot 5-\frac{1}{2}\right)}{2}$$

$$\left(-3.45\right) + \left(0.5\right)\left(0.5-1\right) \left(-2.055 + 1.683\right) + \left(0.5-1/2\right)\left(0.5\right)\left(0.5-1\right)\left(5.735\right)$$

3 Laplace - Everett:

$$y_{p} = q \cdot y_{0} + q(q^{2}-1^{2}) \cdot (\Delta^{2} \cdot y_{-1}) + q(q^{2}-1^{2})(q^{2}-2^{2}) \Delta^{4}y_{-2} + \dots$$

$$\frac{+ p y_1 + p (p^2 - q^2)}{3!} \Delta^2 y_0 + p (p^2 - 1^2) (p^2 - 2^2) \Delta^4 y_{-1} + \frac{5!}{5!}$$

$$\frac{y = 0.5(2.423) + 0.5(0.5^{2}-1^{2})(-2.055) + 0.5(-1.027) + 0.5(0.5^{2}-1^{2})}{6}$$

Unequally Spaced Data: Newton Divided Difference Formula:

oreguelly Spaced Data:

Lagrange's Formula:



enton Divided Difference:

$$\frac{y_1-y_0}{x_1-x_0}=f(x_0,x_1)$$

Difference

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