# Documents

[NumericalFirstDerivatives.docx](file:///C%3A%5CUsers%5CPublic%5Cpublic_html%5CDerivatives%5CNumericalFirstDerivatives.docx) [.xml](file:///C%3A%5CUsers%5CPublic%5Cpublic_html%5CDerivatives%5CNumericalFirstDerivatives.xml) 🡨size of δ to use for (f(x+δ)-f(x-δ))/(2δ)

[NumericalSecondDerivatives.docx](file:///C%3A%5CUsers%5CPublic%5Cpublic_html%5CDerivatives%5CNumericalSecondDerivatives.docx) [.xml](file:///C%3A%5CUsers%5CPublic%5Cpublic_html%5CDerivatives%5CNumericalSecondDerivatives.xml) 🡨 size of δ to use for (f(x+δ)+f(x-δ)=2f(x))/δ2

[5point3der.docx](file:///C%3A%5CUsers%5CPublic%5Cpublic_html%5CDerivatives%5C5point3der.docx) [.xml](file:///C%3A%5CUsers%5CPublic%5Cpublic_html%5CDerivatives%5C5point3der.xml)

# Zips

[GDc1st.zip](file:///C%3A%5CUsers%5CPublic%5Cpublic_html%5CDerivatives%5CGDc1st.zip)

[GDc1stPlot.zip](file:///C%3A%5CUsers%5CPublic%5Cpublic_html%5CDerivatives%5CGDc1stPlot.zip)

[GDc2nd.zip](file:///C%3A%5CUsers%5CPublic%5Cpublic_html%5CDerivatives%5CGDc2nd.zip)

[FivePtDers.zip](file:///C%3A%5CUsers%5CPublic%5Cpublic_html%5CDerivatives%5CFivePtDers.zip)

# Fortran

[Dcheck.for](file:///C%3A%5CUsers%5CPublic%5Cpublic_html%5CDerivatives%5CDcheck.for)

# Differentiate a Lagrange Polynomial

[Lagrange\Lagrange.docx](file:///C%3A%5CUsers%5CPublic%5Cpublic_html%5CDerivatives%5CLagrange%5CLagrange.docx) [.xml](file:///C%3A%5CUsers%5CPublic%5Cpublic_html%5CDerivatives%5CLagrange%5CLagrange.xml)

# Byproduct of spline fitting

[..\interpolation\splinefitting\Welcome.docx](file:///C%3A%5CUsers%5CPublic%5Cpublic_html%5Cinterpolation%5Csplinefitting%5CWelcome.docx) [.htm](file:///C%3A%5CUsers%5CPublic%5Cpublic_html%5Cinterpolation%5Csplinefitting%5CWelcome.htm)