

Chapter 2

Limits and Derivatives

2.1 Introduction to Derivatives

2.1.1. With $\Delta t = 1.0$, $\Delta f = f(2.0) - f(1.0) = 3.0$, so $\frac{\Delta f}{\Delta t} = 3.0$. With $\Delta t = 0.5$, $\Delta f = f(1.5) - f(1.0) = 1.5$, so $\frac{\Delta f}{\Delta t} = 3.0$. With $\Delta t = 0.1$, $\Delta f = f(1.1) - f(1.0) = 0.3$, so $\frac{\Delta f}{\Delta t} = 3.0$. With $\Delta t = 0.01$, $\Delta f = f(1.01) - f(1.0) = 0.03$, so $\frac{\Delta f}{\Delta t} = 3.0$.

2.1.2. With $\Delta t = 1.0$, $\Delta g = g(1.0) - g(0.0) = -3.0$, so $\frac{\Delta g}{\Delta t} = -3.0$. With $\Delta t = 0.5$, $\Delta g = g(0.5) - g(0.0) = -1.5$, so $\frac{\Delta g}{\Delta t} = -3.0$. With $\Delta t = 0.1$, $\Delta g = g(0.1) - g(0.0) = -0.3$, so $\frac{\Delta g}{\Delta t} = -3.0$. With $\Delta t = 0.01$, $\Delta g = g(0.01) - g(0.0) = -0.03$, so $\frac{\Delta g}{\Delta t} = -3.0$.

2.1.3. With $\Delta t = 1.0$, $\Delta h = h(2.0) - h(1.0) = 6.0$, so $\frac{\Delta h}{\Delta t} = 6.0$. With $\Delta t = 0.5$, $\Delta h = h(1.5) - h(1.0) = 2.5$, so $\frac{\Delta h}{\Delta t} = 5.0$. With $\Delta t = 0.1$, $\Delta h = h(1.1) - h(1.0) = 0.42$, so $\frac{\Delta h}{\Delta t} = 4.2$. With $\Delta t = 0.01$, $\Delta h = h(1.01) - h(1.0) = 0.0402$, so $\frac{\Delta h}{\Delta t} = 4.02$.

2.1.4. With $\Delta t = 1.0$, $\Delta h = h(1.0) - h(0.0) = 1.0$, so $\frac{\Delta h}{\Delta t} = 1.0$. With $\Delta t = 0.5$, $\Delta h = h(0.5) - h(0.0) = 0.25$, so $\frac{\Delta h}{\Delta t} = 0.5$. With $\Delta t = 0.1$, $\Delta h = h(0.1) - h(0.0) = 0.01$, so $\frac{\Delta h}{\Delta t} = 0.1$. With $\Delta t = 0.01$, $\Delta h = h(0.01) - h(0.0) = 0.0001$, so $\frac{\Delta h}{\Delta t} = 0.01$.

2.1.5. With $\Delta t = 1.0$, $\Delta G = G(1.0) - G(0.0) = 6.389$, so $\frac{\Delta G}{\Delta t} = 6.389$. With $\Delta t = 0.5$, $\Delta G = G(0.5) - G(0.0) = 1.718$, so $\frac{\Delta G}{\Delta t} = 3.436$. With $\Delta t = 0.1$, $\Delta G = G(0.1) - G(0.0) = 0.221$, so $\frac{\Delta G}{\Delta t} = 2.21$. With $\Delta t = 0.01$, $\Delta G = G(0.01) - G(0.0) = 0.0202$, so $\frac{\Delta G}{\Delta t} = 2.02$.

2.1.6. With $\Delta t = 1.0$, $\Delta G = G(1.0) - G(0.0) = -0.632$, so $\frac{\Delta G}{\Delta t} = -0.632$. With $\Delta t = 0.5$, $\Delta G = G(0.5) - G(0.0) = -0.393$, so $\frac{\Delta G}{\Delta t} = -0.787$. With $\Delta t = 0.1$, $\Delta G = G(0.1) - G(0.0) = -0.095$, so $\frac{\Delta G}{\Delta t} = -0.95$. With $\Delta t = 0.01$, $\Delta G = G(0.01) - G(0.0) = -0.00995$, so $\frac{\Delta G}{\Delta t} = -0.995$.



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Re-engineering Manufacturing for Sustainability Andrew Y. C. Nee,Bin Song,Soh-Khim Ong,2013-04-08 This edited volume presents the proceedings of the 20th CIRP LCE Conference which cover various areas in life cycle engineering

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