

# Finding a Formula for the Best Degree n Approximation

Session 26

a)  $1 + f(a_0) + \frac{f^{(2)}(a_0) h^2}{2} + \frac{f^{(3)}(a_0) h^3}{6}$

b)  $a_n \cdot h f!$

c)  $1 + f(a_0)h + \frac{f^{(2)}(a_0) h^2}{2!} + \dots + \frac{f^{(n)}(a_0) h^n}{n!}$