CPSC 303
- Differences - Divided Differences — Main technical tool in Ch. 10
Where do: $f(X_c, X_i) = \frac{f(X_i) - f(X_o)}{X_i - X_o}$
$f\left(x_{c}, x_{i}, x_{z}\right) = \frac{f\left(x_{c}, x_{z}\right) - f\left(x_{c}, x_{i}\right)}{\left(x_{c}, x_{i}, x_{z}\right)}$
come from?
Differences: X -3 -2 -1 C 1 2 3 (Df)x) f(x)=x² q 4 C 4 q -f(x+1)-f(x) (st Diff)(f) -5 -3 -1 4-7=3 5
$(1^{54})(4)(x)$ -5-3-113 5 $(-()^{4})(x)$
$\frac{(2^{1/2} \log(f)(f))(x)}{3^{1/2} \log(f)(x)} = 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2$







