

$$\begin{aligned} G(F(x)) &= x \\ G(F(x))^k &= x^k \\ (G^k)' &= kx^{k-1} \\ \sum_{i=0}^k G^i F^{i-1} &= kx^{k-1} \\ \sum_{i=0}^k G^i F^{i-n} &= kx^{k-1} F^{-n} \\ [x^{-1}] \sum_{i=0}^k G^i F^{i-n} &= [x^{-1}] kx^{k-1} F^{-n} \\ \sum_{i=0}^k G^i \big[i-n-1\big] &= k[x^{-k}] F^{-n} \\ nG^k &= k[x^{-k}] F^{-n} \\ \end{aligned} \quad G(F(x)) \quad G(F(x)) \quad k$$

$$(G^k)' = F \times F'$$

$$i=0 \sum G^i F^{i-1} F'$$

$$i=0 \sum G^i F^{i-n-1} F'$$

$$[x^{-1}] i=0 \sum G^i F^{i-n-1} F'$$

$$i=0 \sum G^i [i-n-1] nG^k$$

$$= x = x^k$$

$$= kx^{k-1}$$

$$= kx^{k-1}$$

$$= kx^{k-1} F^{-n}$$

$$= [x^{-1}] kx^{k-1} F^{-n}$$

$$= k[x^{-k}] F^{-n}$$

$$= k[x^{-k}] F^{-n}$$

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