$g'(x) = g(x). \left( ln \left( f(x) \right) \right)$  $= \left( \begin{array}{c} x \\ x \end{array} \right) = \left( \begin{array}{c} l \\ x \end{array} \right) = \left( \begin{array}{$ 

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 $\begin{cases} f(x) = (x) \\ f$  $\begin{cases}
|X| = X \text{ smx} & |X| = X \text{ smx} \\
= X \text{ smx} & |X| = X \text{ smx} & |X| = X \text{ smx} \\
= X \text{ smx} & |X| = X \text{ smx}$ + 1m

1'(x)=(mx) cox (ln mx cox) = = (smx) cox. (cox. lwsmx) = - (Amt) Cost (-mt. In mt + cost. 1. cost)  $f(x) = (x^2 + 1)$  ar cay  $f'(x) = (x^2+1) \text{ arcy} \left( \text{ arcy} \cdot \left( x^2+1 \right) \right)' =$  $=(\chi^2+1)^{\frac{1}{2}} - (\chi^2+1)^{\frac{1}{2}} + \frac{(\chi^2+1)^{\frac{1}{2}}}{(\chi^2+1)^{\frac{1}{2}}} + \frac{(\chi^2+1)^{\frac{1}{2}}}{(\chi^2+1)^$