

$$\begin{array}{lcl}
 \begin{array}{l} \rightarrow \\ (12+) \end{array} & y = x^2 + 1 \rightarrow x^2 = y - 1 \rightarrow x = \sqrt{y - 1} & \\
 & \downarrow \text{diff} & \downarrow \text{diff} \\
 & y' = 2x & 1 = \frac{y'}{2\sqrt{y-1}} \Rightarrow y' = 2\sqrt{y-1} = 2\sqrt{x^2+1-1} \\
 & & = 2\sqrt{x^2} = 2x \\
 & & \downarrow \\
 y' \cdot x' = 2x \cdot \frac{1}{2x} = 1 & & x' = \frac{1}{2\sqrt{y-1}} = \frac{1}{2\sqrt{x^2+1-1}} = \frac{1}{2x}
 \end{array}$$