

$\sqrt{y \sin x - 1} \rightarrow y \sin x - 1 \geq 0$
 $y \sin x \geq 1 \rightarrow \sin x \geq \frac{1}{y}$
 $D_f = \{y | y \geq \frac{1}{\sin x}\} \cup \{y | y \leq -\frac{1}{\sin x}\}$
 $\sqrt{\cos x - 1} \rightarrow \cos x \geq 1$
 $D_f = R - \{y | y < -1\}$

$\cos y = |x| - 1 \rightarrow -1 \leq |x| - 1 \leq 1 \rightarrow 0 \leq |x| \leq 2$
 $y = \arcsin(x^2 + 3x + 1) \rightarrow -1 \leq x^2 + 3x + 1 \leq 1$
 $D_f = [-1, 0] \cup [2, 3]$

$y = \sqrt{y - \log_p(x-y)}$
 $x - y > 0 \rightarrow x > y$
 $y - \log_p(x-y) \geq 0$
 $y \geq \log_p(x-y) \rightarrow y \geq x - y \rightarrow (y, x]$

$y = \frac{y}{x^2 + 1}$
 $x^2 + 1 \neq 0$
 $y = \frac{y}{x^2 - 1} \rightarrow x^2 - 1 \neq 0 \rightarrow x \neq \pm 1 \rightarrow R - \{1, -1\}$
 $y = \frac{y}{x^2 - y} \rightarrow x^2 - y \neq 0 \rightarrow y \neq x^2 \rightarrow R - \{x^2\}$

$y = (f(x+1))!$
 $f(x+1) \in W \rightarrow f(x) \in W - 1 \rightarrow x \in \frac{W-1}{f}$
 $D_f = \{x | x = \frac{K-1}{f}, K \in W\}$
 $y = \left(\frac{y(x-y)}{y(x-\delta)}\right)! \rightarrow \frac{y(x-y)}{y(x-\delta)} \in W \rightarrow y(x-y) \in y(x-\delta)W$
 $D_f = \{x | x = \frac{\delta K + y}{y(x-\delta)}, K \in W\}$