

$g(x) = \frac{1}{x}$ Rational Function
 Rule

$g(3) = \frac{1}{3}$
 $g(\frac{3}{4}) = \frac{1}{\frac{3}{4}} = \frac{1}{1} \cdot \frac{4}{3} = \frac{4}{3}$
 $g(0) = \frac{1}{0}$ Undefined

① D.F. $\{x \in \mathbb{R} \text{ and } x \neq 0\}$
 $\{x \mid x \in \mathbb{R} \text{ and } x \neq 0\}$
 ② I.I. $(-\infty, 0) \cup (0, \infty)$

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$h(x) = \frac{2}{x-3}$

$h(0) = \frac{2}{0-3} = -\frac{2}{3}$

$h(3) = \frac{2}{3-3} = \frac{2}{0}$

D.F. : $\{x \mid x \in \mathbb{R} \text{ and } x \neq 3\}$
 I.I. $(-\infty, 3) \cup (3, \infty)$

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