

$-2 \leq x \leq 4$ $-2 \leq z \leq 4$ $\frac{3x+2}{5} = z$	$-2 \leq \frac{3x+2}{5} \leq 4$ $-10 \leq 3x+2 \leq 20$ $-12 \leq 3x \leq 18$ $-4 \leq x \leq 6$	$D = [-4, 4]$	۱
$-2 \leq x \leq 3$ $-4 \leq 3x \leq 9$ $-8 \leq 3x-2 \leq 7$ $\frac{3x-2}{4}$ $-8 \leq t \leq 7$	$D = [-8, 7]$		۲
$-1 \leq x \leq 3$ $-3 \leq 3x \leq 9$ $-2 \leq 3x+1 \leq 10$ $\frac{3x+1}{2}$ $-1 \leq \frac{3x+1}{2} \leq 5$	$-1 \leq \frac{3x+1}{2} \leq 5$ $-3 \leq 3x \leq 9$ $-1 \leq x \leq 3$	$D = [-1, 3]$	۳
$f(x)$ $\frac{1}{2} f(2-3x)$			۴
$f(x)$ $\frac{1}{2} f(2-3x)$			۵

$$x \text{ س } \frac{1}{\mu} = -\frac{b}{\mu a} = \frac{\mu}{a} \quad \frac{1}{\mu} (a - \mu) = \mu$$

$$y \text{ س } \frac{1}{\mu} = \frac{\mu a}{\mu a} \quad (a - \mu) = \mu \rightarrow a = \mu + \mu = 2\mu$$

$$\left| \begin{array}{c} \frac{\mu}{a} \\ \frac{\mu a}{\mu a} \end{array} \right| \rightarrow \left| \begin{array}{c} \mu \\ \mu \end{array} \right| \quad y = -\frac{1}{\mu} (a - \mu) + \mu = 0$$

$$\boxed{V, \checkmark}$$

$$sf(x) : \left| \begin{array}{c} 1 \\ \mu \end{array} \right|$$

$$1 - \mu f(\mu a + \mu) = \left| \begin{array}{cc} -\frac{1}{\mu} & a \\ -\mu & b \end{array} \right| \quad \alpha \beta = -\frac{1}{\mu} \times -\mu = \frac{\mu}{\mu}$$

$$\begin{aligned} Df(x-1) &= (a+1, b) \\ Dg(x+1) &= [-\mu, b-1] \end{aligned} \quad \left. \begin{array}{l} \\ \end{array} \right\} \rightarrow (-\mu, b)$$

$$\frac{a+1}{a} = -\mu \quad \frac{b-1}{b} = \mu \quad a-b = -\mu \cdot \mu = -\mu^2$$

$$-\mu \leq \frac{a}{\mu} + 1 \leq \mu$$

$$\downarrow$$

$$-\mu \leq \frac{a}{\mu} \leq \mu$$

$$-\mu \leq a \leq \mu$$

$$D = [-\mu, \mu]$$

$$R_1 = [-1, \mu]$$

$$\mu f(x) - \mu \rightarrow R = [-\mu, \mu]$$

$$\sqrt{12f(x) - \mu} \rightarrow R = [-\mu, \mu]$$

صحيح اخذ

$$g(x) = \left| \frac{x-1}{\mu x - \mu} \right| + 1 \rightarrow x + \left| \frac{x-1}{\mu x - \mu} \right| + 1 < 0$$

$$\left\{ \begin{array}{l} x < 1 \rightarrow x+1 + \frac{1-x}{\mu - \mu x} < 0 \rightarrow \frac{\mu - \mu x + 1 - x}{\mu - \mu x} < 0 \rightarrow \frac{\mu + 1 - x(\mu + 1)}{\mu - \mu x} < 0 \rightarrow \frac{\mu + 1}{\mu - \mu x} < 0 \rightarrow \mu + 1 < 0 \rightarrow \mu < -1$$

$$1 < x < \frac{\mu}{\mu} \quad x^2 - x - 1 > 0 \rightarrow \emptyset$$

$$x > \frac{\mu}{\mu} \quad x^2 < x \rightarrow \emptyset$$

$$x < -\sqrt{\mu} \quad (-\infty, -\sqrt{\mu})$$

$$D_{y_1} = [-r, \Delta] \rightarrow -r \leq x \leq \Delta \rightarrow -\frac{1}{r} \leq \frac{x}{r} + 1 \leq \frac{\Delta}{r} \Rightarrow D_f = \left[-\frac{1}{r}, \frac{\Delta}{r}\right]$$

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$$R_{y_1} = [-1, r] \rightarrow -1 \leq t \leq r \rightarrow -\Delta \leq rt - r \leq 1 \rightarrow 0 \leq |rt - r| \leq \Delta$$

$$0 \leq \sqrt{|rt - r|} \leq \sqrt{\Delta} \Rightarrow R_f = [0, \sqrt{\Delta}]$$