

$$\Rightarrow y^r + ry - 1 = 0 \quad \frac{-r \pm \sqrt{r^2 + 4}}{2} = -1.8 \pm \frac{\sqrt{15.64}}{2}$$

$$-1,8 \pm \frac{\sqrt{13}}{2} < 1 \Rightarrow \text{باعد}$$

دو مقدار را با هم جمع می‌کنیم

$$f(x) = -\phi + \phi - \frac{1}{x} + \dots$$

$\Rightarrow$ $f(x, y)$

	$-y$	0	y	y	y
x	$-x$	0	x	x	x
$-x$	$+$	$+$	$+$	$+$	$+$
0	$-$	$+$	$+$	$+$	$+$
x	$+$	$+$	$+$	$+$	$+$
y	$+$	$+$	$+$	$+$	$+$

$x = y$

$x = y$

$x \neq (x-y)$
 $f(x)$
 $x \neq (x-y)$
 $f(x)$

$-f$	$-y$	0	y	Δ	y	V
+	+	0	-	+	+	+
-	0	+	+	0	-	+
-	+	0	-	+	+	+

$$D = \begin{pmatrix} -\frac{\pi}{6} & \frac{\sqrt{3}}{6} \\ \frac{\sqrt{3}}{6} & \frac{\pi}{6} \end{pmatrix} U \begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix} U^T$$

$$f(x) = \frac{2x^2 - 3x + 1}{x^3 - 1}$$

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$$\Delta 2x^2 - 3x + 1 < 0 \Rightarrow \begin{cases} 2x^2 - 3x + 1 > 0 \\ a > 0 \end{cases}$$

$$x^3 - 1 = (x - 1)(x^2 + x + 1) \Rightarrow \begin{matrix} -1 & 0 & 1 \\ -1 & + & 1 & -1 & + \end{matrix}$$

$$\Rightarrow D_f = \mathbb{R} - \{0, -2, 1\}$$

$$D_{f'} = (-2, 0) \cup (1, +\infty)$$

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$$x^2 - 2x^2 - 1 \Rightarrow x^2 = \frac{1 \pm \sqrt{5}}{2} = \frac{1}{2} \pm \frac{\sqrt{5}}{2}$$

$$\Rightarrow x = \pm \sqrt{\frac{1 \pm \sqrt{5}}{2}}$$

$$\Rightarrow \begin{matrix} -1 & 1 & \sqrt{5} \\ -1 & + & 1 & + \end{matrix} \Rightarrow D = (-2, +\infty) - \{1\}$$

$$\rightarrow f - 1[-x] = 0 \Rightarrow x = [-2, 1]$$

$$2x^2 + 1 > 0 \Rightarrow \begin{matrix} -1 & 1 \\ -1 & + & 1 & + \end{matrix}$$

$$D = \mathbb{R} - [-2, 1]$$

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الف

انت) $\sqrt{x(x^2-1)}$

$\frac{-1}{1+\sqrt{1}} + \frac{0}{1+\sqrt{1}} + \frac{1}{1+\sqrt{1}}$

$D_1 = [-1, 0] \cup [1, +\infty)$

$\frac{0}{\sqrt{|x|+x}}$

$\frac{1}{\sqrt{0}} \cdot x \Rightarrow D_2 = (0, +\infty)$

$D_1 \cap D_2 = D_f = [1, +\infty)$

$|x|=1 \Rightarrow x = \pm 1$

$\Rightarrow D_1 = \mathbb{R} - \{\pm 1\}$

$\sqrt{|x-2|-x^2}$

$\frac{-x^2-x+2}{-x^2} \cdot \frac{1}{-x^2} = \frac{-x^2+x-2}{-x^2}$

$\frac{-2}{1+\sqrt{1}} + \frac{1}{1+\sqrt{1}}$

$\Rightarrow D_2 = [-2, 1]$

$\Delta < 0 \Rightarrow -x^2+x-2 < 0$

$D_2 \cap D_1 = D_f = [-2, 1] - \{-1\}$

$[x-2]$

201)

$x+x$

	2	3
-	0	+
-	+	+
+	0	+

$D = \mathbb{R}$

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202)

$\Rightarrow D = \mathbb{R} - (3, 4)$

	1	3	4
+	0	0	-
+	+	+	+

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$y = 1$ $\Rightarrow$  $\Rightarrow$ $k = 1$

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$$\frac{x^r + r + r}{x^r + r + r}$$

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$$\log_{x+1} \log_x \frac{1}{x}$$

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$$\Rightarrow x > 0$$

$$x > -1 \Rightarrow x > 0$$

$$\log_x \frac{1}{x} > 0 \Rightarrow -\log_x x > 0$$

$$\Rightarrow \log_x x < 0 \Rightarrow 0 < x < 1$$

$$\Rightarrow (0, 1)$$

$$-0 < 3x^2 - 1, 5x$$

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$$-0 < 3x^2 - 1, 5x$$

$$3x^2 - 1, 5x$$

$$3x^2 - 1, 5x \geq 0 \checkmark$$

$$1R - \left(\frac{1}{12}, \frac{1}{12}\right)$$

$$\frac{1}{12} \quad \frac{1}{12}$$

$$+ \quad - \quad +$$