

زیر مجموعه دنیای - یا در هم - A - کلیف

$f(x) = \sqrt{x+1}\sqrt{x-1}$ $\frac{\sqrt{x+1} + \sqrt{x-1}}{x+1}$ $\sqrt{x^2+2x+1} = \sqrt{(x+1)^2}$ $\sqrt{x^2-2x+1} = \sqrt{(x-1)^2}$ $f+g = \sqrt{x+1} + \sqrt{x-1}$ $\frac{a+b}{c} = \frac{a}{c} + \frac{b}{c}$ $\frac{a+b}{c} = \frac{a}{c} + \frac{b}{c}$

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

$f(x) = \frac{x}{x^2-1}$ $f(1) = \frac{1}{0}$ $f(-1) = \frac{-1}{0}$ $f(2) = \frac{2}{3}$ $f(-2) = \frac{-2}{3}$

$f(x) = \{(1,1), (-1,-1), (2,2), (-2,-2)\}$

$g(x) = \{(1,1), (-1,-1), (2,2), (-2,-2)\}$

$g(x) = \{(1,1), (-1,-1), (2,2), (-2,-2)\}$

$\frac{f}{g} = \{(1,-1), (-1,1)\}$

$h(x) = \sqrt{x+1} + \sqrt{x-1}$ $h(1) = \sqrt{2}$ $h(-1) = \sqrt{0} + \sqrt{-2}$

$f(n) = \sqrt{n+1} - n$ $n \geq 0, \sqrt{n+1} - n \geq 0$ $n \in \mathbb{Z} \rightarrow \sqrt{n+1} \geq n \rightarrow n \leq \sqrt{n+1}$

$g(n) = [n] + [-n] < n \notin \mathbb{Z}$ $D(\frac{f}{g+1}) = g \neq -1 \rightarrow R \setminus \mathbb{Z}$

$f(n) = \sqrt{n+1} - n$ $f(n) = \sqrt{(n+1)(n+1)} = n+1$ $D = \{0, 1, 2\}$

$h(n) = \{(1,1), (2,2), (3,3)\}$

$R = R[x]$ $y = x^3 - 3x^2 + 3x - 1 \rightarrow y = (x-1)^3$

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$$R \text{ و } R \text{ (الف)}$$

$$R \text{ و } R \text{ (ب)}$$

✓

$$x \rightarrow R[0, +\infty)$$

4-

$$\left. \begin{array}{l} \{x \mid x \leq x+1\} \\ \{x \mid x \leq x+1\} \end{array} \right\} \begin{array}{l} \text{نسب اول} \\ \text{نسب اول} \end{array}$$

$$R[0, +\infty)$$

به هم بین او اول و اول

$$y \text{ و } \frac{x-1}{x-2} \text{ (الف)}$$

$$R - \left\{ \frac{9}{2} \right\} = R - \{5\}$$

10-

$$y \text{ و } \frac{x+1}{x+1} \text{ (ب)}$$

$$R - \{1\}$$

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