

$f(x) = \sqrt{x+5} \sqrt{x-5} \Rightarrow \sqrt{(x-5)+5} \sqrt{x-5+5} \Rightarrow \sqrt{(x-5)+5} \xrightarrow{+5} \sqrt{x-5} + 5$

$g(x) = \sqrt{x-5} \sqrt{x-5} \Rightarrow \sqrt{(x-5)-5} \sqrt{x-5+5} \Rightarrow \sqrt{(x-5)-5} \xrightarrow{+5} \sqrt{x-5} - 5$

$f(x) + g(x) = \sqrt{x-5} \Rightarrow a=0, b=5, c=-5$
 $\frac{0+5}{-5} = -1$

$f(x) = \frac{x+5}{x^2-5x+5}$ $g(x) = \{(1,1), (1,0), (5,1), (5,5)\}$ $\frac{g}{f} = ?$ $f \neq 0$

$\Rightarrow x=5, 1$ $\frac{g}{f} = \{(0,4), (5, \frac{1}{5})\}$

$\frac{f}{g}$	g	$g(x)+1$	$f(x)$	$f(x)+1$
$\{(1,-5), (5,-1), (1, X)\}$	$\{(1,1), (1,4), (5,1), (5,5)\}$	$\{(1,2), (1,5), (5,2), (5,6)\}$	$\{(1,5), (1,4), (5,4), (5,1)\}$	$\{(1,6), (1,5), (5,5), (5,2)\}$
$\{(1,-5), (5,-1)\}$				$\{(5,2), (5,6)\}$

$h = f+g$

$h = \{(1,4), (5,6), (5,9)\}$

$f(x) = \frac{\sqrt{x} - x}{x-2}$ $g(x) = [x] + [1-x]$ $g(x)-1$

$R_f: x > 0 \Rightarrow x \neq 2$ $\sqrt{x} > 0$ $R_g: x \in \mathbb{R} \Rightarrow g(x) = 0$
 $R_f \cap R_g = \{0, 1, \infty\}$ $\Rightarrow R_g = \mathbb{R}$

$$p_2: -x^2 + dx - \varepsilon \geq 0 \quad \frac{1}{+} \quad \frac{\varepsilon}{-} \quad p_2: [1, \varepsilon]$$