

$$f(b) = \sum_{b \in B} f(b) \quad \hookrightarrow \quad a \cdot \sum_{b \in B} f(b) = \sum_{b \in B} a \cdot f(b)$$

9. (KNO_3) 2 MgCl_2

$$g \circ f \circ g^{-1} = g \circ f \circ g^{-1} \circ g \circ f \circ g^{-1} \circ g \circ f \circ g^{-1} \circ \dots$$

$\hookrightarrow a_3 \leq r$
 $(a_3) b_3 r$
 $\hookrightarrow a_3 r \rightarrow b_3 r$
 $\hookrightarrow a_3 r \rightarrow b_3 r$

$$\begin{array}{l} \text{y 26 |} \\ \text{- (x - p)} \end{array} \rightarrow \boxed{\text{y 3 - 1}}$$

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

$$f(x) = \sqrt{x+1} \rightarrow x+1 \geq 0 \rightarrow \mathbb{R}$$

$$g(x) = \frac{1}{x^4 - 5x} \rightarrow x^4 - 5x \neq 0 \rightarrow x(x^3 - 5) \neq 0$$

$$D(g \circ f)^2 : \mathcal{D}_f \rightarrow \mathbb{R}$$

$$\{g \in Dg \mid \sqrt{|a|} \neq 0, \epsilon\} \quad \begin{matrix} \text{no bal} \neq 0 \\ \text{no bal} \neq 14 \end{matrix} \rightarrow x \neq 0, 1, (6, 1) \cup (1, 600)$$

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

$$g(x) = 2\sqrt{x}$$

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$$(f+g) \circ f^{-1} \circ i \circ j \hookrightarrow x \in Df \rightarrow 1-x^2 \gamma_1 \rightarrow 1-2x \gamma_1 - 1$$

$$f(x) \in D(f+g) \hookrightarrow D(f+g) \rightarrow \sqrt{1-x^2} + \sqrt{x} \rightarrow 1/2 \leq \sqrt{x} \rightarrow 0 \leq \sqrt{1-x^2} \leq 1$$

$$\frac{\sqrt{1-x^2}}{1-x^2} \leq 1$$

الف) $\left(\frac{2x^2 + 9x + 5}{x - 2} \right)$

$$\text{الف) } \left(\frac{x^2 + 1}{x^2 - 1} \right) = \frac{x^2 + 1}{x^2 - 1} \xrightarrow{+L} + = \frac{x^2 + 1}{x^2 - 1} \rightarrow \frac{-x^2 - 1}{x^2 - 1} \left\{ \frac{x^2 + 1}{x^2 - 1} = x \sqrt{x^2 + 1} \frac{x^2 + 1}{x^2 - 1} + \Delta \right\} \frac{x^2 + 1}{x^2 - 1}$$

1) $\left(\frac{29}{91} \right)^{29} \times \frac{1}{29}$

$$\left(x + \frac{1}{2x}\right)^n = x^n + \binom{n}{1} x^{n-1} \frac{1}{2x} + \binom{n}{2} x^{n-2} \left(\frac{1}{2x}\right)^2 + \dots + \binom{n}{n-1} x \frac{1}{2x} + \binom{n}{n} \left(\frac{1}{2x}\right)^n$$

$$g(x) \begin{matrix} \xrightarrow{x^2} \\ \xrightarrow{\sqrt{x}} \end{matrix} y^2$$

$$\hookrightarrow g(bx)_{x=0} \hookrightarrow f(x) = 2\sqrt{x+1}$$

$$\left. \begin{array}{l} \hookrightarrow \begin{array}{cc} 2\sqrt{2} & 2\sqrt{2} \\ 2\sqrt{2} & 2 \end{array} \end{array} \right\} \begin{array}{cc} 2\sqrt{2} & 3\sqrt{2} \\ 2\sqrt{2} & 2 \end{array} \rightarrow \text{Y-|2|}$$