

$$f(x) + f(1/x) = ?$$

$$f(x^2 + x) = 2x^2 - 1$$

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$$\rightarrow x^2 + x = 2 \rightarrow x^2 + x - 2 = 0 \rightarrow (x-1)(x+2) = 0 \rightarrow x = 1$$

$$\rightarrow x^2 + x = 1 \rightarrow x^2 + x - 1 = 0 \rightarrow (x-2)(x+5) = 0 \rightarrow x = 2$$

$$\rightarrow f(x) = 1 \rightarrow f(1/x) = 1 \rightarrow f(x) + f(1/x) = 2$$

$$f(x) = \sqrt{x+5} \sqrt{x-5} = |\sqrt{x-5} + 2| = \sqrt{x-5} + 2$$

$$g(x) = \sqrt{x-5} \sqrt{x-5} = |\sqrt{x-5} - 2|$$

$$f(x) + g(x) = \sqrt{x-5} + 2 + 2 - \sqrt{x-5} = 4$$

$$f(x) + g(x) = \sqrt{x-5} + 2 + \sqrt{x-5} - 2 = 2\sqrt{x-5}$$

$$\frac{a+b}{c} = \frac{2}{5} = \frac{1}{2.5}$$

$$f(x) = x^3 - 9x^2 + 12x = (x-2)^3 + 8$$

$$g(x) = x^3 + 9x^2 + 27x = (x+3)^3 - 27$$

$$\frac{g(\sqrt[3]{5} - 3)}{f(\sqrt[3]{5} + 2)} = \frac{(\sqrt[3]{5} - 3)^3 - 27}{(\sqrt[3]{5} + 2)^3 + 8} = \frac{-10}{10} = -1$$

$$f(x) = \frac{x+2}{x^2-5x+6}$$

$$g(x) = \{(2,1), (1,0), (3,5), (0,4)\}$$

$$f(2) = -1$$

$$f(0) = \frac{2}{6}$$

$$\frac{g}{f} = \{(2, -\frac{1}{6}), (0, 4)\}$$

$$\eta_{\frac{g}{f}} = \eta_g \cap \eta_f = \{x | f(x) = 0\} = \{2, 0\}$$

$$f(x) = \{(1,2), (3,-1), (5,2), (-1,4)\}$$

$$g(x) = \{(-2,3), (1,-1), (3,2), (-1,5)\}$$

$$f(x) = \{(\frac{1}{2}, 2), (\frac{3}{2}, -1), (2, 2), (-\frac{1}{2}, 4)\}$$

$$f(x^2) = \{(1,2), (-1,2), (\sqrt{3}, -1), (-\sqrt{3}, -1), (2,2), (-2,2)\}$$

$$2g'(x) + 1 = \{(-2,9), (1,9), (3,9), (-1,9)\}$$

$$\frac{f}{g} = \{(1,2), (3,-1)\}$$