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١- $\{ (1, \sqrt{1}), (0, 2), (2, \sqrt{5}) \}$ و $g(x)$ هم دالة

$\{ (1, \frac{\sqrt{2}}{2}), (0, \frac{2}{3}), (2, \frac{2}{3}) \}$ رب $\{ (1, \sqrt{2}), (0, \frac{2}{3}), (2, \frac{2}{3}) \}$ و $g(x)$ هم دالة

$\frac{-\frac{2}{3}}{\frac{2}{3}} = -\frac{1}{3} \times \frac{\sqrt{2}}{\sqrt{2}} = -\frac{\sqrt{2}}{3} = -\frac{\sqrt{2}}{3}$

$\{ (-4, 1), (-5, 4), (2, 2), (3, 8) \}$ و $g(x)$ هم دالة

$\{ (-1, 1), (-5, 3), (3, 5), (2, 2) \}$ رب

$\{ (1, 13), (-5, 3), (2, 49), (2, 4) \}$ و $g(x)$ هم دالة

$\{ (-2, \frac{1}{2}), (-5, 1), (-\frac{5}{2}, 4), (1, 1) \}$ و $g(x)$ هم دالة

$\{ (1, 4), (3, 2), (2, 2) \}$ و $g(x)$ هم دالة

$\{ (2, 9), (3, -2) \}$ رب

$(8, 1), (2, 9), (3, 2)$

هم دالة

$$\underbrace{x + f(x)}_{\text{هم علامت}} \geq 0 \quad \forall x \in [-1, 0] \cup [1, 5] \quad -1$$

هم علامت

-2

$$\text{مختلف الدرجات} \left\{ \begin{array}{l} -x \\ f(x) \end{array} \right\} \geq 0 \quad \forall x \in (-1, 1) - \{0\} \quad \text{مع 3$$

$$f(x) \neq 0$$

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

-3

$$-f(1) = 1 \quad f(1) = -1$$

$$x=-1 \rightarrow f(-1) + 1 = 1 + 1 + 1$$

$$f(-1) = 1$$

-4

$$f(1) = 1 + 1 = 2$$

$$f(0) = 0 - \sqrt{0+1} = -1 \quad \forall x \in [1, 5]$$

$$f(1) = 1 + 1 = 2$$

-5

$$x=0 \quad f(0) = 1$$

$$x=1 \rightarrow f(1) - f(1) = 1 + 1 \quad f(1) = a - b + 1 = -1$$

$$-f(1) = 1$$

$$a - b = -1$$

$$f(1) = 1$$

$$\frac{x^2 + 1}{x^2 + 1} = \frac{(x+1)^2 + 1}{(x+1)^2 + 1} \quad \frac{1+1}{1+1} = \frac{1}{1} = 1 \quad -6$$

$$f\left(x - \frac{1}{x}\right) = x^2 + \frac{1}{x^2} \quad f(-1) = (-1)^2 + 1 = 2 \quad -7$$

$$\left(x - \frac{1}{x}\right)^2 = x^2 + \frac{1}{x^2} - 2 \quad f\left(x - \frac{1}{x}\right) = \left(x - \frac{1}{x}\right)^2 + 2$$