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الرياضيات



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① $\sqrt{x+4\sqrt{x-4}} + \sqrt{x-4\sqrt{x-4}}$ ^{نشان} $\rightarrow x+4\sqrt{x-4} + x-4\sqrt{x-4}$
 $+ 2\sqrt{x^2-14(x-4)} = 2x + 2\sqrt{x^2-14x+44} = 2x + 2\sqrt{(x-7)^2}$

$= 2x - 14 \rightarrow 2\sqrt{x-4} \Rightarrow \frac{0+2}{-4} = \boxed{-\frac{1}{2}}$ (د)

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

$f(1) = \frac{3}{0}$ ^{نقطه}
 $f(3) = \frac{8}{0}$ ^{نقطه}

③ الف) $2x = 1 \rightarrow x = \frac{1}{2} \Rightarrow f(x) = \left\{ \left(\frac{1}{2}, 2\right), \left(\frac{3}{2}, -1\right), \left(2, 2\right), \left(\frac{1}{2}, 4\right) \right\}$

ب) $x^2 = 1 \rightarrow x = \pm 1 \Rightarrow f(x) = \left\{ (1, 2), (-1, 2), (\sqrt{2}, -1), (-\sqrt{2}, -1), (2, 2), (-2, 2) \right\}$

ج) $2g^2(x) + 1 \rightarrow x = -2 \rightarrow g(x) = 3 \rightarrow 19 \Rightarrow$
 $2g^2(x) + 1 = \left\{ (-2, 19), (4, 3), (2, 9), (-1, 1) \right\}$ (د)

د) $\frac{2f}{g} \rightarrow x = \left\{ 1, 3, -1, 2 \right\} \Rightarrow \frac{2f(x)}{g} = \left\{ 2(1, \frac{1}{2}), (3, -1) \right\}$

④ $h = \left\{ 2, 3, -1 \right\} \quad h = 2f + g = \left\{ (2, 4), (3, 4), (-1, 4) \right\}$ (د)

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بہترین نمونہ

(9) $\mathbb{R} \rightarrow \mathbb{R}$ $\mathbb{R} \rightarrow [1, \infty)$

ii) $\mathbb{R} \rightarrow [0, \infty)$

(10) $\frac{a}{c} = \frac{e}{1} = 1 \rightarrow \mathbb{R} = \mathbb{R} - \{1\}$

ب) $\frac{a}{c} = 1 \rightarrow \mathbb{R} = \mathbb{R} - \{1\}$