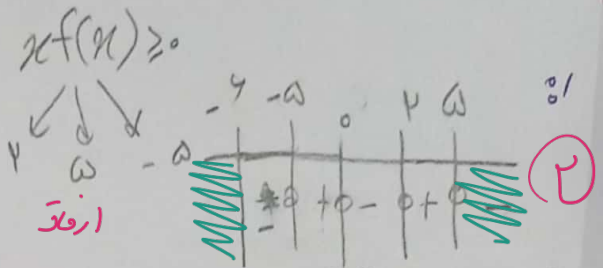


۲. آفرین!

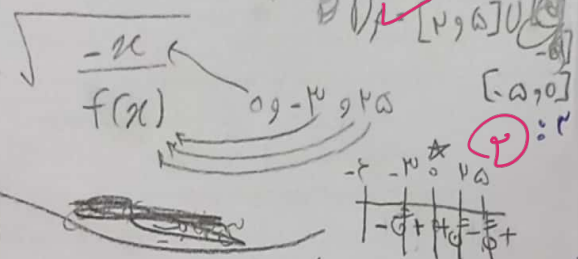
آفرین!

تا بعد از بازی ۵ تا ۴ - تمرین درست



۱۹-۲۰-۱ ← پاسخ صحیح

$$D_f = (-3, 0) \cup (0, 2)$$



$$f(x) - 2f(2) = x^2 - 3x + 2$$

$$f(2) - 2f(2) = 4 - 6 + 2 = 0$$

$$-f(2) = 0$$

$$f(2) = 0$$

$$f(-2) + 2 = 4 + 4 + 2 = 10$$

$$f(-2) = 10$$

$$f(x) = \begin{cases} x - \sqrt{x+4} & ; x > 3 \\ 2x+3 & ; x \leq 3 \end{cases}$$

$$f(f(3)) + f(f(1))$$

$$3 + 2 = 5$$

$$-3-1 = -4$$

$$ax^2 - 2ax + a - bx + b = x^2 + 2$$

$$-ax^2 + bx - 1 = x^2 + 2$$

$$a+b - 2ax = x^2 + 2$$

$$-2a = 1 \quad a = -\frac{1}{2}$$

$$b = 3$$

$$-3-1 = -4$$

$$f(x) = \frac{x^2 + 5x + 6}{x^2 + 4x + 4} = \frac{(x+2)+1}{(x+2)^2 + 3}$$

$$f(\sqrt{3}-2) = \frac{3+1}{3+3} = \frac{4}{6} = \frac{2}{3}$$

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

$$\frac{x}{x} - \frac{1}{x}$$

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

$$f(-3) = (-3)^2 - 2 = 7$$

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

$$g(x) = \sqrt{9-2x^2}$$

$$f(x) = f(2, 0) \cup (1, -4) \cup (0, 2) \cup (2, 1)^2$$

$$\frac{f}{g} =$$

$$\frac{f}{g} = \left\{ (0, \frac{2}{\sqrt{3}}), (1, \frac{1}{\sqrt{3}}), (2, \frac{0}{\sqrt{3}}) \right\}$$

$$\frac{g}{f} =$$

$$\frac{g}{f} = \left\{ (0, \frac{\sqrt{3}}{2}), (1, \frac{\sqrt{3}}{1}), (2, \frac{\sqrt{3}}{0}) \right\}$$

$$f(x) = \begin{pmatrix} 1 & 2 & 1 \\ 3 & 4 & 1 \\ -1 & 2 & 1 \\ 1 & 2 & -1 \end{pmatrix} f$$

✓ 9

الف) $f(x) = \begin{pmatrix} 1 & 2 & 1 \\ 3 & 4 & 1 \\ -1 & 2 & 1 \\ 1 & 2 & -1 \end{pmatrix} f$ ب) $f(x) + \begin{pmatrix} 1 & 2 & 1 \\ 3 & 4 & 1 \\ -1 & 2 & 1 \\ 1 & 2 & -1 \end{pmatrix} f$

ج) $f(x) + \begin{pmatrix} 1 & 2 & 1 \\ 3 & 4 & 1 \\ -1 & 2 & 1 \\ 1 & 2 & -1 \end{pmatrix} f$ د) $f(x) = \begin{pmatrix} 1 & 2 & 1 \\ 3 & 4 & 1 \\ -1 & 2 & 1 \\ 1 & 2 & -1 \end{pmatrix} f$

$3 \times 1 + 1$
 $3 \times 1 + 1$
 $3 \times 1 + 1$
 $3 \times 1 + 1$

✓ 9

g(x) = $\begin{pmatrix} 1 & 2 & 1 \\ 3 & 4 & 1 \\ -1 & 2 & 1 \\ 1 & 2 & -1 \end{pmatrix} f$, $f(x) = \begin{pmatrix} 1 & 2 & 1 \\ 3 & 4 & 1 \\ -1 & 2 & 1 \\ 1 & 2 & -1 \end{pmatrix} f$ ✓ 10

الف) $f - g = \begin{pmatrix} 1 & 2 & 1 \\ 3 & 4 & 1 \\ -1 & 2 & 1 \\ 1 & 2 & -1 \end{pmatrix} f$ ب) $\frac{2f}{9} = \begin{pmatrix} 1 & 2 & 1 \\ 3 & 4 & 1 \\ -1 & 2 & 1 \\ 1 & 2 & -1 \end{pmatrix} f$

$1 \times 1 = 1$
 $3 \times 1 = 3$
 $3 \times 1 = 3$
 $1 \times 1 = 1$