

« لکھنا واضح تہ عکس بنیے »

10

نام و نام خانوادگی: پاسبانہ تشریحی تکلیف شماره: کلاس:

$$f(x) = (x+1)^2 + (2x-1)^2 + mx^2 + nx + m$$

$$x^2 + 2x + 1 + 4x^2 - 4x + 1 + mx^2 + nx + m = 10x^2 - 9x + 2 \quad m = -10 \quad n = 6$$

$$\sum_{i=1}^n (f_i(x)) = (y \circ p + 1) \circ (p + y \circ -1) \circ (-9 \circ p + 10)$$

$$m + n + p + k = -10 + 6 + (-9) + 10 = -3$$

$$p + 1 = -10 \Rightarrow p = -11$$

$$-11 + k = -1 \Rightarrow k = 10$$

$$\boxed{-3}$$

$$y = \sqrt{\frac{x-2}{x^2-2x-1}}$$

$$x^2 - 2x - 1 = 0 \Rightarrow x = 1 \pm \sqrt{2}$$

$$x = 1 \pm \sqrt{2}$$

$$D = (-\infty, 1 - \sqrt{2}) \cup (1 + \sqrt{2}, \infty)$$

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

$$f = 2[-x] \neq 0$$

$$f > -2[-x]$$

$$17f = 1R - (-3 - 2)$$

$$D_f = 1R - [-2, -1]$$

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

$$\sqrt{\frac{x(x^2-1)}{(x+1)(x-1)}} \geq 0 \Rightarrow \frac{x(x^2-1)}{(x+1)(x-1)} \geq 0$$

$$D = 1R - (-\infty, -1] \cup [1, \infty)$$

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

$$|x-2| - 1 \geq 0 \Rightarrow R - \{1\}$$

$$-x^2 + |x-2| \geq 0 \Rightarrow |x-2| \geq x^2$$

$$x-2 \geq x^2 \Rightarrow x^2 - x + 2 \leq 0 \Rightarrow \Delta = -7 \Rightarrow \text{No solution}$$

$$-x-2 \geq x^2 \Rightarrow x^2 + x + 2 \leq 0 \Rightarrow \Delta = -7 \Rightarrow \text{No solution}$$

$$D = [-2, 1] \cup [1, 2] = [-2, 2]$$

$$y = \frac{1}{|x-2| - 1} = k$$

$$|x-2| - 1 = k$$

$$|x-2| - 1 = -k$$

$$x-2 = k+1$$

$$x-2 = -k-1$$

$$x = k+2$$

$$x = -k+1$$

$$k+2 = -k+1 \Rightarrow k = -1$$

$$x = -k+1$$

$$x-2 = k-1$$

$$x = k+1$$

$$k+2 = k-1 \Rightarrow k = -3$$

$$[-2, 2]$$

$$y = kx - [x]$$



$\frac{(x-1)(x-1)}{(x-1)} + b \Rightarrow (x-1)+1=x \rightarrow$ $b=+1 \quad a=-1 \quad a-b = -1-(-1) = -1$ $\frac{(x-1)(x-1)}{(x-1)} + b \Rightarrow x-1+1=x \rightarrow$	$f(x) = \frac{x^2 - 1x + 1}{x+1} + b$ $-1 + (-1) = \boxed{-1}$ $a = -1, b = 1 \Rightarrow a-b = -1-1 = -2$
$f(x) = \begin{cases} \frac{x^2 + 1x - x - 1}{x^2 - 1} ; x \neq \pm 1 \\ \frac{ax + b}{x + 1} ; x = \pm 1 \end{cases}$ $(y+1) = -1 \Rightarrow y = -2$ $(0+1) = -1 \Rightarrow 1 = -1$ $1 + 1 = 0, 1 \Rightarrow 1 = 0$ $1 + 1 = 0, 1 \Rightarrow 1 = 0$ $1 + 1 = 0, 1 \Rightarrow 1 = 0$	$\frac{1 - 1x - 1}{1} = \frac{1 - 1x}{1} = -1x$ $\frac{-1x}{1} = -1x, \forall x$ $\frac{-1 + 1}{-1 + 1} = \frac{0}{0} \rightarrow 1, 1x - 1x + 1 = 1$ $\frac{a + 1}{1 + 1} = \frac{a + 1}{2} = -1x + 1$ $a + 1 = -2x + 2 \Rightarrow a = -2x + 1$ $a + b = 0, 1x + (-1x + 1) = 0, 1x - 1x + 1 = 1$
$b - \frac{1}{x} > 0 \Rightarrow b > \frac{1}{x} \Rightarrow \frac{b}{x} > 1$ $1x - 1a > 0 \Rightarrow 1x > 1a \Rightarrow x > a$ $\frac{b}{x} = 1 \Rightarrow b = x$ $\frac{1}{x} a = 1 \Rightarrow \frac{a}{x} = 1 \Rightarrow a = x$	$1a - \frac{b}{x} - k = \left(\frac{x}{x}\right) - \frac{1}{x} - \frac{1}{x}$ $1 - \frac{1}{x} + \frac{1}{x} = 1 + \frac{1}{x} = \frac{x+1}{x}$ $\sqrt{1x - 1x} + k - 1 = \sqrt{0} + k - 1 = k - 1$ $\sqrt{1x - 1x} + k = \sqrt{0} + k = k$ $k = k - 1 \Rightarrow k = -1$
$g(x) = \sqrt{1x + 1}$ $x + 1 \geq 0 \Rightarrow x \geq -1$ $x \geq -1$ $\sqrt{m - x} + n$ $m - x \geq 0 \Rightarrow m \geq x$ $m = x \Rightarrow x \geq x$	$D_{f \circ g} = [1, 1]$ $\sqrt{1x + 1} = \sqrt{1x} = \sqrt{1x}$ $1x + 1 \geq 0 \Rightarrow 1x \geq -1 \Rightarrow 1x = -1 \Rightarrow x = -1$ $f(x) = \sqrt{1x} \Rightarrow \sqrt{1x} + n \Rightarrow \sqrt{1x} = 1 + n$ $n = \sqrt{1x} - 1 \Rightarrow \sqrt{1x} - 1$ $m + n = 1 + (\sqrt{1x} - 1) = \sqrt{1x}$
$y = \frac{1}{x} (x - [x]) = \frac{1}{x} \Rightarrow y = (x - [x]) = \frac{1}{x}$ $(x - [x]) = \frac{1}{x}$	$\begin{aligned} &\rightarrow 1, 1 - [1, 1] = 0, 1 \\ &\rightarrow 0, 1 - [0, 1] = 0, 1 \\ &\rightarrow -0, 1 - [-0, 1] = 0, 1 \\ &\rightarrow -1, 1 - [-1, 1] = 0, 1 \end{aligned}$