

نام و نام خانوادگی پاسخنامه تشریحی تکلیف شماره کلاس و ...

$$\frac{1}{n+1} - \frac{1}{n} = \frac{n - (n+1)}{(n+1)n} = \frac{-1}{(n+1)n}$$

$$\frac{1}{n-1} - \frac{1}{n+1} = \frac{(n+1) - (n-1)}{(n-1)(n+1)} = \frac{2}{(n-1)(n+1)}$$

$$D_f = \mathbb{R} - \left\{ -\frac{1}{2}, -\frac{1}{4}, -\frac{1}{6}, -\frac{1}{8}, -\frac{1}{10}, -\frac{1}{12}, -\frac{1}{14}, -\frac{1}{16}, -\frac{1}{18}, -\frac{1}{20}, -\frac{1}{22}, -\frac{1}{24}, -\frac{1}{26}, -\frac{1}{28}, -\frac{1}{30}, -\frac{1}{32}, -\frac{1}{34}, -\frac{1}{36}, -\frac{1}{38}, -\frac{1}{40}, -\frac{1}{42}, -\frac{1}{44}, -\frac{1}{46}, -\frac{1}{48}, -\frac{1}{50}, -\frac{1}{52}, -\frac{1}{54}, -\frac{1}{56}, -\frac{1}{58}, -\frac{1}{60}, -\frac{1}{62}, -\frac{1}{64}, -\frac{1}{66}, -\frac{1}{68}, -\frac{1}{70}, -\frac{1}{72}, -\frac{1}{74}, -\frac{1}{76}, -\frac{1}{78}, -\frac{1}{80}, -\frac{1}{82}, -\frac{1}{84}, -\frac{1}{86}, -\frac{1}{88}, -\frac{1}{90}, -\frac{1}{92}, -\frac{1}{94}, -\frac{1}{96}, -\frac{1}{98}, -\frac{1}{100} \right\}$$

$$\frac{n-1}{n} - \frac{n}{n-1} \geq 0$$

$$\frac{n^2-1-2n-n^2}{n(n-1)} = \frac{1-2n}{n(n-1)} \geq 0$$

$$D_f = (-\infty, 0) \cup \left[\frac{1}{2}, +\infty\right)$$

$$\sqrt{x-1} + \sqrt{y+1} = 2$$

$$\left(\left(\frac{1}{x}\right)^n - 9\right)(x^2 - 4^n)$$

تماماً پاسخنامه رو بخون
سوالات خوبین!

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

این عبارت را به صورت
مشتق می‌گیریم

$$D_f = D_{f_1} \cap D_{f_2} = (-\infty, -1) \cup (2, +\infty)$$

$$\sqrt{x^2-1} \sim x^2-1 > 0 \rightarrow x^2 > 1 \rightarrow D_{f_1} = (-\infty, -1) \cup (1, +\infty)$$

$$x^2 - x - 2 > 0$$

$$(x-2)(x+1) > 0 \rightarrow D_{f_2} = (-\infty, -1) \cup (2, +\infty)$$

$$-x^2 + 4x + 3 \geq 0 \rightarrow -x^2 - \frac{1}{2}x + 3 \geq 0$$

$$m = -2 \rightarrow -4 = 2a + 3 \Rightarrow$$

$$-2a = 1$$

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

$$b = \frac{5}{2}$$

$$x = \frac{+\frac{1}{2} + \frac{5}{2}}{-2} = -2$$

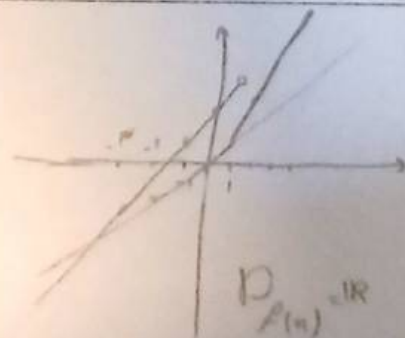
$$x = \frac{+\frac{1}{2} - \frac{5}{2}}{-2} = \frac{-2}{-2} = 1$$

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

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

$$f(x) \geq x$$

$$D_g = [2, +\infty)$$



$$x f(0) = f(-x) + x \Rightarrow x(a+1)(b+x) = x a - x + x$$

$$1 \times a + 1 \times x = x a - x$$

$$1 \times a = -1 \times 1$$

$$a = -\frac{1 \times 1}{1 \times 1}$$

$$a = -\frac{1}{1} = -1, 1$$

$$f(a) = \sqrt{a} + \frac{1}{1} + 1 \times 1$$

$$f(\sqrt{a} + \sqrt{a}) + f(1 + \sqrt{a}) = ?$$

$$\left(a + \frac{1}{1} \right) + 1 \times 1 = a + 1 + 1 \times 1$$

$$a + b = 1 + 1$$

$$\begin{cases} x f(a) - x f(-a) = x a - x - x a + x \\ x f(-a) = x f(a) + x a - x \end{cases}$$

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

مجموعه جوابها

$$\begin{aligned} a = 0 & \rightarrow x f(0) = x a - 1 \rightarrow f(0) = \frac{x a - 1}{x} \\ a = -1 & \rightarrow x f(-1) = x a + x a - 1 \rightarrow f(-1) = \frac{x a + x a - 1}{x} \end{aligned}$$

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

$$\frac{x a - 1}{x} = \frac{1 a + x a}{x}$$

$$f(-1) + (-1) f$$

$$x f(-1) = -1 \times 1$$

$$f(-1) = -1$$

$$f(-1) = ?$$

$$f(a) f\left(\frac{1}{a}\right) = \frac{x a - x}{x} = \frac{x a - x}{x a + x}$$

1.

2.

3.

4.

5.

6.

7.