

نام و نام خانوادگی آیدین ... پاسخنامه تشریحی تکلیف شماره ۷ ... کلاس ...

$$xf(x) \geq 0 \Rightarrow \begin{array}{c|c|c|c|c|} \hline & - & + & - & + \\ \hline \end{array} \Rightarrow D_f = [-5, 0] \cup [2, 5]$$

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$$\frac{-x}{f(x)} \geq 0, f(x) \neq 0 \Rightarrow \begin{array}{c|c|c|c|c|} \hline & - & + & - & + \\ \hline \end{array} \Rightarrow D_f = (-2, 0) \cup (0, 2) \cup (2, +\infty)$$

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$$\begin{aligned} f(2) - 2f(2) &= f - 2 + f = 2 \Rightarrow f(-2) - 2f(2) = f + 2 + 2 \\ \Rightarrow f(2) = 2 \Rightarrow f(2) = -2 \Rightarrow f(-2) + 2 &= 12 \Rightarrow f(-2) = 10 \end{aligned}$$

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$$f(2-2) + f(2) = f(2) + (2^2) = 7 \Rightarrow 2 - 2 = 9$$

$$f(x-1) = a(x-1)^2 - b(x-1) + 2$$

$$\Rightarrow f(x-1) - f(x) = a(x^2 - 2x + 1) - b(x-1) + 2 - (ax^2 - bx + 2)$$

$$\Rightarrow f(x-1) - f(x) = -2ax + a + b = 5x + 2$$

$$\Rightarrow -2a = 5 \Rightarrow a = -\frac{5}{2} \Rightarrow b = 2, \Rightarrow a - b = -\frac{9}{2}$$

$$\frac{r(1) + \Delta}{(-1)^r} = \textcircled{V}$$

f

$$\frac{r^9 - 1}{V} = \textcircled{\frac{r1}{V}}$$

y

$$\frac{f(1) - f(r)}{r} = \frac{s-s}{r} = \textcircled{0}$$

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$$f(x) = \frac{(x+r)^r + \Delta}{(x+r)^r + 1} \Rightarrow f(f(\sqrt{r}-r)) = f\left(\frac{\sqrt{r}^r + \Delta}{\sqrt{r}^r + 1}\right)$$

$$\Rightarrow f(r) = \frac{r^r + 1 + 9}{r^r + 1 + \Delta} = \textcircled{\frac{r1}{1V}}$$

q

$$f(\sqrt{x}) = x + \frac{1}{x} \Rightarrow (f(\sqrt{x}))^r = x^r + \frac{1}{x^r} + r$$

$$\Rightarrow (f(\sqrt{x}))^r - f(x) = x^r + \frac{1}{x^r} + r - x^r - \frac{1}{x^r} = \textcircled{r}$$

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