

۱۹, ۲۵

پایگاه تشریحی تکلیف شماره ۳ ..... کلاس دوازدهم سطح B ..... آیین حجت

$$\begin{cases} |2x-1-x+1| \leq n & x \geq 1 \\ |x+2-x+1| \leq 2n+1 & x < 1 \end{cases} \rightarrow 2n+1 \geq 0 \rightarrow n \geq -\frac{1}{2}$$

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

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$$\frac{2x^3 + \frac{1}{x}x^2 + \frac{1}{x}x + \frac{1}{x}}{1 + (x^2 + x + \frac{1}{x})^2} = \frac{2x \times (x + \frac{1}{x})^2}{2 \times (x + \frac{1}{x})^2} = \frac{1}{2x+1}$$

$$D_f = \mathbb{R} - \left\{-\frac{1}{2}\right\}$$

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$$\frac{(n-1)(n+1)(n+2)}{(n-1)(n+1)} \leq n+2 \Rightarrow 1 \leq n+2 \quad f(1) = 2 \quad f(-1) = 1$$

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$$\frac{a+2}{1+b} \leq 2 \quad \frac{-a+2}{b-1} \leq 1 \Rightarrow -a+2 \leq b-1 \Rightarrow a \leq b+3 \quad b+c = \frac{5}{2}$$

$$\rightarrow \frac{a-b}{1+b} \leq 2 \rightarrow b \leq \frac{1}{2} \quad \boxed{\frac{1}{2} \leq \frac{1}{2}}$$

$$c = 1 \quad (n-1)^2 \leq n^2 - 2n + 1 \quad b = 1 \quad a = 1$$

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$$|f| + (-2) \leq 0$$

'کامل تر نبویس!'

$$(n-2)^2(n) + (-n-2)^2(-n) = n^3 - 4n^2 + 4n - n^3 - 4n^2 - 4n = -8n^2$$

$$g(n) = -8n^2$$

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$$1 - 2n \leq r \rightarrow n \leq -1 \Rightarrow \sqrt{-1 + r} \leq 1$$

$$1 - 2n \leq -1 \rightarrow n \leq 1 \Rightarrow \sqrt{1} \leq 1$$

$$f + 1 \leq 1$$

$$n + \sqrt{n} \leq 4 \rightarrow n \leq 4$$

$$f + r \times r \leq 4 \times 4 + 1 \leq 16 + 1 = 17$$

$$f(n) \leq n(n^2 + 1)$$

$$(n-1)(n^2 - n + 1) + (1-n)(n^2 - n + 1)$$

$$\leq 0$$

$$rf - y \leq r\sqrt{fm - ra} \quad K - r - \sqrt{b - fm} \leq rK \leq r\sqrt{fm - ra} - \sqrt{b - fm}$$

$$\Rightarrow ra \leq b \leq 1$$

$$n \leq 1 \rightarrow K - r \leq K \rightarrow rK \leq r \rightarrow K \leq 1$$

$$ra - \frac{b}{r} - K \leq r - r + 1 \leq 1$$

$$m = \sqrt{r-2} + m - \sqrt{r-2} \leq \sqrt{r} \rightarrow n \leq \sqrt{r-2}$$

$$n + m \leq \sqrt{r-2} + \sqrt{r} \leq \sqrt{r} + 1$$