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$$\log_a \log_a (2n-1) \geq 0$$

$$2n-1 > 0 \Rightarrow n > \frac{1}{2} \text{ I}$$

$$\log_a 2n-1 > 0 \Rightarrow 2n-1 > 1 \Rightarrow n > 1 \text{ II}$$

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$$\log_a 2n-1 \leq 0 \Rightarrow 2n-1 \leq 1 \Rightarrow n \leq 1 \text{ III}$$

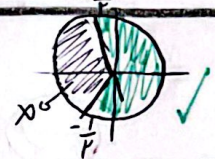
$$(I) \cap (II) \cap (III) \Rightarrow$$

$$D_8 = (1, 3]$$

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$$\log (r \cos x + 1) \Rightarrow r \cos x + 1 > 0 \Rightarrow \cos x > -\frac{1}{r}$$

$$D_9 = (2k\pi - \frac{\pi}{r}, 2k\pi + \frac{\pi}{r})$$



$$\sqrt{\log \frac{n-1}{n+1}} \Rightarrow \frac{n-1}{n+1} > 0 \Rightarrow (-\infty, -1) \cup (1, +\infty) \text{ (I)}$$

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کدام دو خط موازی است

$$\log \frac{n-1}{n+1} \geq 0 \Rightarrow \frac{n-1}{n+1} \geq 1$$

$$\frac{n-1-n-1}{n+1} \geq 0 \Rightarrow \frac{-2}{n+1} \geq 0$$

$$I \cap II, [-\infty, -1] \text{ II}$$

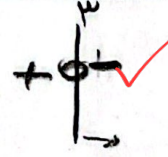
$$D_{12} = (-\infty, -1)$$

1

$$(a+2)n^2 + 9n + b \geq 0$$

$$\Rightarrow a = -2 \Rightarrow -2n + 2 \geq 0$$

جدول تغییر علامت



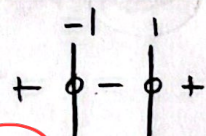
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9

$$n^2 + 2n + 2 - m^2 \geq 0 \Rightarrow \Delta \leq 0$$

$$f - f(2-m^2) \leq 0 \Rightarrow -f + fm^2 \Rightarrow f(m^2-1) \leq 0$$

$$(m+1)(m-1)$$



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$$1 - (-1) = 2$$

10

$$f - n^2 \geq 0 \Rightarrow n \in [-2, 2] \text{ (I)}$$

$$[n] + [-n] + 1 \neq 0 \begin{cases} \text{if } n \in \mathbb{Z} \rightarrow 0 \\ \text{if } n \notin \mathbb{Z} \rightarrow 1 \end{cases} \Rightarrow n \in \mathbb{Z} \text{ (II)}$$

$$D_{10} = \{-2, -1, 0, 1, 2\} \Rightarrow \text{اعداد صحیح}$$

به دلیل نوشتن نام و نام خانوادگی نفوذ شما (0) مر باشد