

$$\frac{n+3}{2n^3+3n^2-1n+3} \Rightarrow \frac{2n^3+3n^2-1n+3}{n^3+3n^2-1n+3} = 2n^2+5n-2$$

$$\Rightarrow D_f = \mathbb{R} - \left\{1, \frac{1}{2}, -3\right\}$$

$$\frac{2n^3+9n^2+1n+3}{n+1} = 2n^2+7n+3 \Rightarrow (n+1)(n+3)\left(n+\frac{1}{2}\right)$$

$$\Rightarrow D_f = \mathbb{R} - \left\{-1, -3, -\frac{1}{2}\right\}$$

$$\frac{n^2-2n+2n-1}{n-1} = n^2-n+1 \Rightarrow \frac{n+3}{(n-1)(n^2-n+1)} \Rightarrow$$

$$D_f = \mathbb{R} - \{1\}$$

$$\frac{n+3}{n^2-2n^2+2n-1} \Rightarrow \frac{n+3}{(n-1)(n^2-n+1)} \Rightarrow \phi$$

$$\Rightarrow D_f = \mathbb{R} - \{-3, 1\}$$

$$y = \frac{n^2-5(n-1)-2n+2}{(n-1)(n-4)}$$

$$\Rightarrow y = \begin{cases} \frac{n^2-5n+7}{(n-1)(n-4)} & : n > 1 \\ \frac{n(n+3)}{n^2+3n} & : n \leq 1 \end{cases}$$

$$D_f = \mathbb{R} - \{2, -3, 0, 4\}$$

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$$|2n+1| - |n+3| \neq 0 \Rightarrow (2n+1)^2 \neq (n+3)^2$$

$$\Rightarrow 4n^2+4n+1 \neq n^2+6n+9 \Rightarrow 3n^2-2n-8 \neq 0$$

$$\Rightarrow n \neq \frac{2 \pm \sqrt{4+96}}{6} \Rightarrow n \neq \frac{2 \pm 10}{6} \Rightarrow n \neq \frac{12}{6}, -\frac{8}{6}$$

$$\Rightarrow n \neq 2, -\frac{4}{3}$$

$$D_f = \mathbb{R} - \left\{-\frac{4}{3}, 2\right\}$$

$$D_f = \left[-\frac{4}{3}, \frac{2}{3}\right] \cup (-\infty, 2] \cup [2, +\infty)$$

$$1 - \log_3 n > 0 \Rightarrow 1 > \log_3 n \Rightarrow n > 0, n < 3$$

$$\Rightarrow n \in (0, 3)$$

$$1 - \log_{\frac{1}{2}} n > 0 \Rightarrow 1 > \log_{\frac{1}{2}} n \Rightarrow n > 0, n < \frac{1}{2}$$

$$\Rightarrow n \in \left(\frac{1}{2}, +\infty\right)$$

$$\log_{\frac{1}{r}} \log_{\frac{1}{r}} (r^{n-1})$$

$$r^{n-1} > 0 \Rightarrow r^n > 1 \Rightarrow n > \frac{1}{r}$$

$$0 < \log_{\frac{1}{r}} r^{n-1} \leq 1 \Rightarrow$$

$$r^{n-1} \leq 0 \Rightarrow n \leq r$$

$$\text{or } n \in \left(\frac{1}{r}, r \right]$$

f

$$r \cos n + 1 > 0 \Rightarrow r \cos n > -1 \Rightarrow \cos n > -\frac{1}{r}$$

$$\Rightarrow \mathbb{R} - \left\{ \left[\frac{r k \pi}{r}, \frac{(k+1) \pi}{r} \right] \mid k \in \mathbb{Z} \right\}$$



$$\log_{10} \left(\frac{n-1}{n+1} \right) \Rightarrow \frac{n-1}{n+1} > 0, \frac{n-1}{n+1} \geq 1$$

$$\Rightarrow x-1 \geq x+1 \quad -1 \geq 1x \Rightarrow \boxed{D_f = \emptyset}$$

v

$$(a+r)/2^p + an + b$$

$$\Rightarrow n = p, \text{ is the } \text{---}$$

$$+ \quad p -$$

$$a+r=0 \Rightarrow a = -r$$

$$-r n + b = 0 \Rightarrow$$

$$-r + b = 0 \Rightarrow \boxed{b = r}$$

h

$$D_r = \mathbb{R} \Rightarrow x^r, r x + r - m^r > 0$$

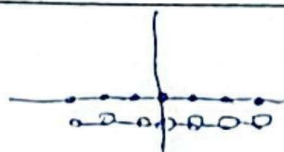
$$a > 0 \checkmark$$

$$\Delta < 0 \Rightarrow r - 1 + r m^r < 0 \Rightarrow m^r - 1 < 0$$

$$\Rightarrow \begin{matrix} -1 & +1 \\ + & p - p + \end{matrix} \quad 1 - (-1) = r$$

q

$$[n] + [-n]$$



$$\Rightarrow [n] + [-n] + 1$$

$$\Rightarrow [n] + [-n] + 1 \neq 0 \Rightarrow [n] + [-n] + 1 \Rightarrow \boxed{n \in \mathbb{Z}}$$

1.

$$r - n^r > 0 \Rightarrow$$

$$- \frac{r}{p} + \frac{r}{p} - [-r, r] \cap \mathbb{Z} = \left\{ -r, -r+1, \dots, r-1, r \right\}$$

$$\Delta$$