

$$\tan \neq 1 \rightarrow n \neq \frac{-\pi}{4} + k\pi \quad \sin \neq \cos \neq 0$$

$$D = \mathbb{R} - \left\{ k\pi + \frac{\pi}{4} + k\pi + \frac{-\pi}{4} + k\pi \right\}$$

$$1 \geq r \sin^2 \rightarrow \sin^2 \leq \frac{1}{r} \quad |\sin| \leq \frac{1}{\sqrt{r}}$$

$$\frac{-\pi}{2} \leq n \leq \frac{\pi}{2}$$

$$D = \left\{ k\pi - \frac{\pi}{2}, k\pi + \frac{\pi}{2} \right\}$$

$$r \sin n - 1 \geq 0 \quad \sin n \geq \frac{1}{r} \quad \frac{\pi}{2} \leq n \leq \frac{3\pi}{2}$$

$$D = \left[\frac{\pi}{2} + r k\pi, \frac{3\pi}{2} + r k\pi \right]$$

$$1 - r \cos n \geq 0 \quad \frac{1}{r} \geq \cos n \quad \frac{\pi}{r} \leq n \leq \frac{2\pi}{r}$$

$$D = \left[\frac{\pi}{r} + r k\pi, \frac{2\pi}{r} + r k\pi \right]$$

$$-1 \leq n^2 + r n + 1 \leq 1 \quad \left\{ \begin{array}{l} n^2 + r n + 1 \leq 1 \rightarrow -r \leq n \leq 0 \text{ (I)} \\ -1 \leq n^2 + r n + 1 \rightarrow n \leq -r \cup n \geq -1 \text{ (II)} \end{array} \right.$$

$$1 \cap r \rightarrow D = [r, 0] \cup [-1, 0]$$

$$\left. \begin{array}{l} 0 \leq \sqrt{a - r n} \leq 1 \quad a - r n \geq 0 \rightarrow n \leq \frac{a}{r} \text{ (I)} \\ \sqrt{a - r n} \leq 1 \rightarrow n \geq r \text{ (II)} \end{array} \right\} \text{ for } r \Rightarrow r \leq n \leq \frac{a}{r}$$

$$D = \left[r, \frac{a}{r} \right]$$

$$n > 0 \quad 1 - \log_r n > 0 \quad \log_r n < 1 \rightarrow n < r \quad D = (0, r)$$

$$n > 0 \quad 1 - \log_{\frac{1}{r}} n > 0 \quad \log_{\frac{1}{r}} n < 1 \quad \frac{1}{r} < n$$

$$D = \left(\frac{1}{r}, \infty \right)$$

$$r^{f n - n^2} - 1 \geq 0 \quad r^{f n - n^2} \geq r^n \quad f n - n^2 \geq n$$

$$f n - n^2 - n \geq 0 \quad D = [1, 2]$$

$$\frac{r n + a}{r n + r} \in W \quad r n + a = r w n + r w \quad r n - r w n = r w + a$$

$$n = \frac{r w + a}{r - r w} \quad \left\{ n \mid n = \frac{r k + a}{r - r k}, k \in W \right\}$$

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