

15, 28

①

9

$$R = \{ -1, -r, -\frac{1}{r} \}$$

ادرس

②

9

②

5

Ⓕ

$\pi \in \mathcal{C}$

$$V(r, +\infty)$$

+

②

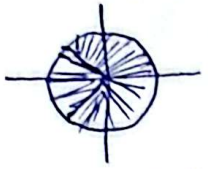
158

④

$$Df = (1, n)$$

✓

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



$$n \in \left(2k\pi - \frac{r\pi}{r}, 2k\pi + \frac{r\pi}{r} \right) \quad k \in \mathbb{Z}$$

1,5

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

$$D_f = (-\infty, -1)$$

$$\frac{n-1}{n+1} \geq 1 \quad \textcircled{1} \quad \textcircled{1}, \textcircled{2} \quad [1, +\infty)$$

$$(a+r)n^2 + an + b \geq 0 \Rightarrow \text{درجه دوم}$$

$$r = 0$$

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

$$a(a+r) + rn + b = 0$$

$$a = -r$$

$$9a + 18 + rn + b = 0$$

$$\Rightarrow b - rn \geq 0$$

$$n \geq \frac{b}{r}$$

$$\boxed{4=b} \quad r = \frac{b}{r}$$

میزان ۳

$$f(n) = \sqrt{n^2 + rn + r - n^2} = \sqrt{rn + r} = \sqrt{r(n+1)}$$

$$f'(n) = -1$$

$$r(n+1) \geq 0 \quad + \frac{-1}{-1}$$

$$(-\infty, -1] \quad a \geq, n \leq 0$$

$$-1 \leq n \leq 1$$

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

$$r - n^2 \geq 0 \quad r \geq n^2 \quad \pm r \geq |n| \quad r \geq n$$

به نوبت عدد صحیح از ۲ تا منفی بی نهایت

$$n \neq 0 \Rightarrow \text{برای اعداد صحیح} = +1, \text{ برای اعداد غرضی} = 0$$

9

رسانه جاس دارد

$$[n] + [-n] = 0 \rightarrow D_f = \mathbb{Z}$$

$$r - n^2 \geq 0 \rightarrow -r \leq n \leq r$$

$$D_f = \{-r, -r+1, \dots, r\}$$