

۱. نامنق  $x < 1$  ، مثبت  $x < 1$   $\Rightarrow$   $x < 1$

$$\Rightarrow \left. \begin{matrix} x=1 \\ x=c \end{matrix} \right\} \text{منفر} \Rightarrow \begin{cases} 9-2a+b=0 \\ 1-a+b=0 \end{cases} \Rightarrow \begin{cases} 2a-b=9 \\ -a+b=-1 \end{cases}$$

$$\Rightarrow \begin{matrix} a=4 \\ b=3 \end{matrix} \Rightarrow a=4 \quad c=1 \quad b=3$$

~~۲~~  $n=-1 \Rightarrow -n = -\frac{1}{c} , \frac{|1-m|}{k-c} = c$

$\Rightarrow c(k-1) = 1-m \Rightarrow m = 1 - ck \Rightarrow y = (k-c)(x-c)(x+1)^c \Rightarrow m=d$

$\Rightarrow k=1 , c = -\frac{1}{2} \Rightarrow (d - (-\frac{1}{2})) + 1 = 1^d$

$y = -\frac{1}{2}x^2 + cx + 4 \Rightarrow -x^2 + 2cx + 8 = 0 \Rightarrow -x^2 + 2cx + d = 0$

$\Rightarrow (x-d)(x+1) \Rightarrow (-1, d) \Rightarrow d - (-1) = 4$

$a-1 < 0 \Rightarrow a < 1$

$$A(0) \Rightarrow a^c - ca + 1 - ca + c \Rightarrow a^c - 2ca + c \Rightarrow (a-1)(a-d) < 0$$

$$\frac{1}{+} \quad \frac{d}{+} \Rightarrow a \in (1, d)$$

$\left. \begin{matrix} A(0) \Rightarrow a^c - 2ca + c < 0 \\ a \in (1, d) \end{matrix} \right\} \Rightarrow \emptyset$

$f(x) = x^c - cx^c - x + c = (x+1)(x-1)(x-c)$

$\Rightarrow (1, c) \xrightarrow{f} \Rightarrow f(c) = 1 - 1c - 1 + c = -1$

$$\frac{n(n^2+m)}{n-c} > 0 \Rightarrow \frac{n^2(n^2+1)}{n-c} > 0$$

$$\Rightarrow \sqrt[n]{-\frac{0}{-c} - \frac{0}{-c} +} \Rightarrow (\Gamma, +\infty)$$

$$\frac{(n-c)(n-c)(n-1)^2}{(n^2+n+1)(c-n)^2} \geq 0 \Rightarrow \frac{+ \quad + \quad +}{+ \quad + \quad +} \Rightarrow [c, +\infty)$$

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$$\frac{(n^2-2n)}{n^2+4} < c \Rightarrow n^2-1-2n < 0 \Rightarrow (n+1)(n-2)$$

$$\Rightarrow (-2, 1) \Rightarrow b-a = 1 - (-2) = 3$$

$$\frac{n^2-2n}{n+1} > -1 \Rightarrow \frac{n^2-2n}{n+1} + \frac{n+1}{n+1} > 0 \Rightarrow \frac{n^2-n+1}{n+1} > 0 \Rightarrow \frac{-1}{-c+}$$

$$\Rightarrow (-1, +\infty)$$

$$\frac{n^2-2n}{n+1} < 0 \Rightarrow \frac{n(n-2)}{n+1} < 0 \Rightarrow \frac{-1 \quad 0 \quad \frac{2}{c}}{-c+ \quad + \quad -c+} \Rightarrow (-\infty, -1) \cup (0, \frac{2}{c}) \quad \left. \vphantom{\frac{n^2-2n}{n+1} < 0} \right\} \Rightarrow (0, \frac{2}{c})$$

$$\frac{n^2-1}{n} < c \Rightarrow \frac{n^2-1}{n} - c < 0 \Rightarrow \frac{n^2-1-cn}{n}$$

$$\Rightarrow \frac{(n+c)(n-1)}{n} < 0 \Rightarrow \frac{-c \quad 0 \quad c}{-c+ \quad + \quad -c+} \Rightarrow [-\infty, -c] \cup (0, c]$$