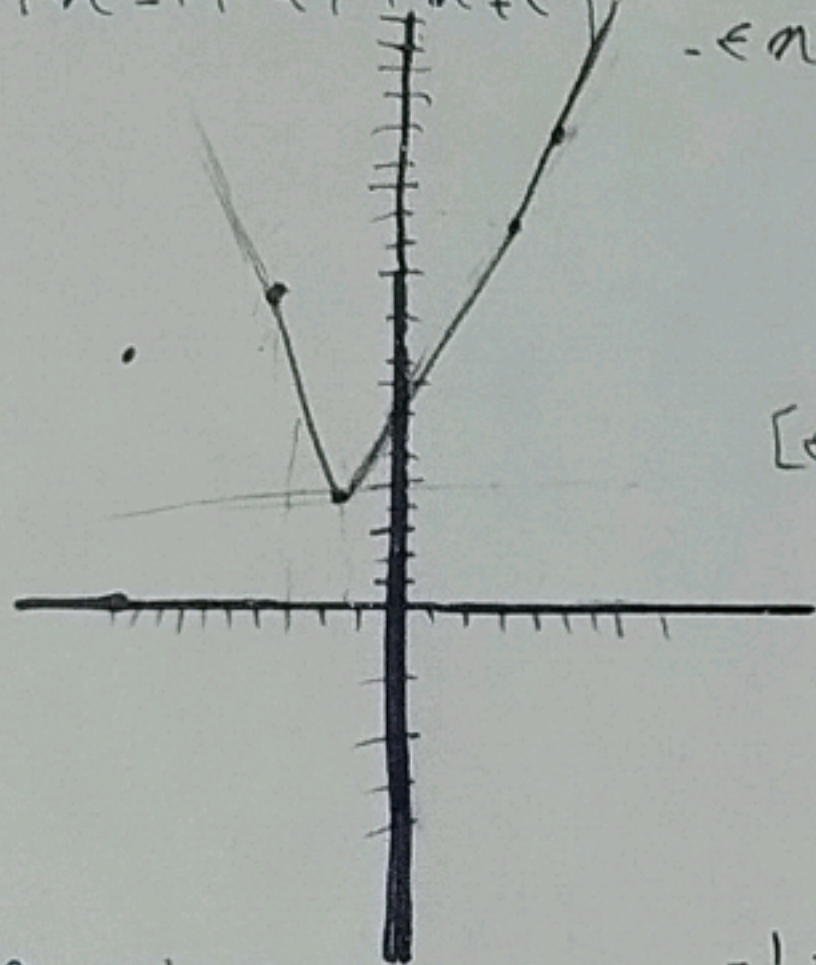
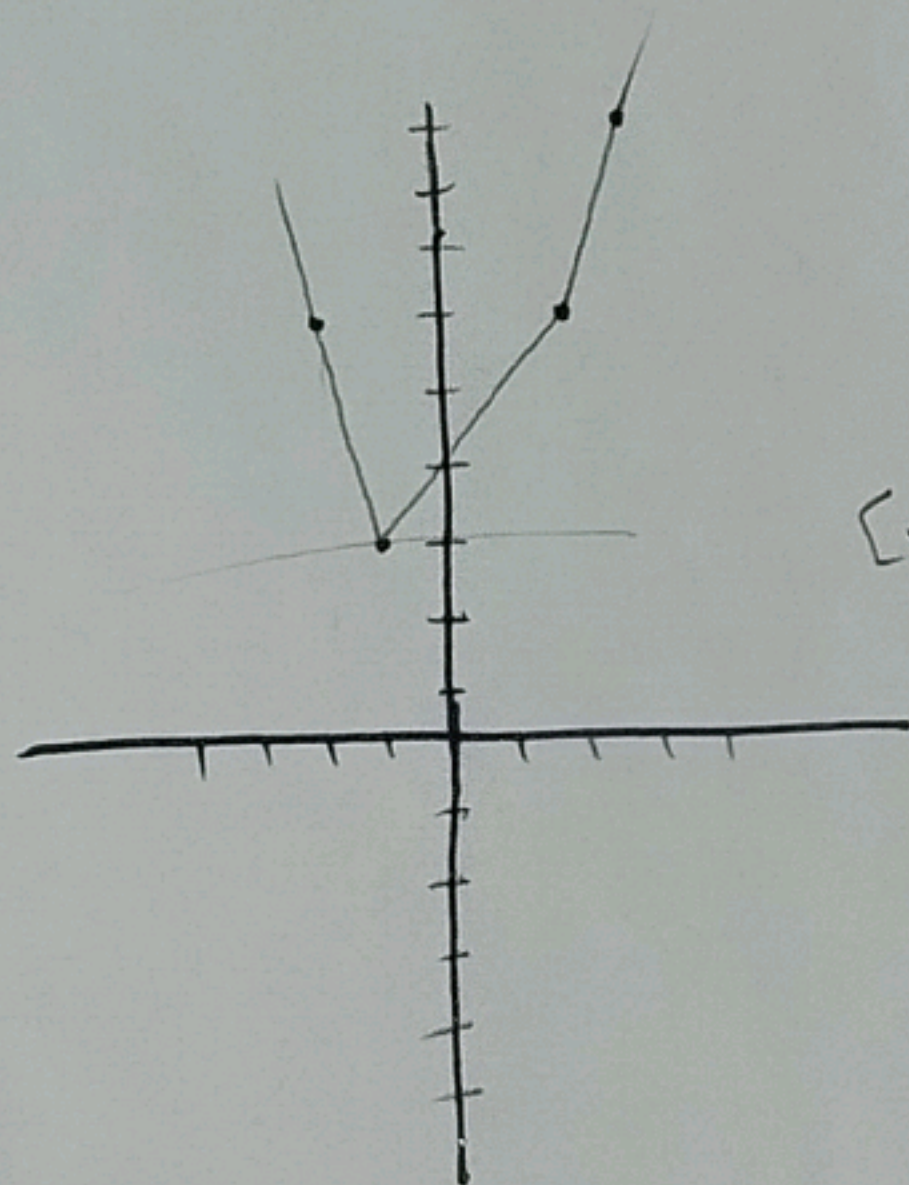


$$v = |n - r| + |r n + e|$$



	$-\frac{e}{r}$	r	e	$-\frac{e}{r}$
$-e n - 1$	$-n + r$	$r n + e + n - r$		
	$r n + e$	$e n + 1$		
	$\frac{1}{r} + r n$	$\frac{1}{r}$		
	$r \Rightarrow e = \frac{1}{r}$			

$$[e = \frac{1}{r} \rightarrow \infty)$$



$$[r = \infty)$$

$$v = |n - r| + |r n + e| \Rightarrow$$

$$\begin{aligned} -1 &\Rightarrow r \\ r &\Rightarrow e \\ -r &\Rightarrow e + r \Rightarrow e \\ r &\Rightarrow 1 + n \Rightarrow 9 \end{aligned}$$

$$v = |r n - r| - |n + 1|$$

$$\begin{aligned} 1 &\Rightarrow -r \\ -1 &\Rightarrow e \\ -r &\Rightarrow +e + (-1) = 0 \\ r &\Rightarrow e - r \geq 1 \end{aligned}$$

$$[-r \rightarrow \infty)$$



$$y = (a^x - 3a^x + 3a \Rightarrow -1) + 1 \Rightarrow (a-1)^x + 1 = 0 \Rightarrow y-1 = (a-1)^x$$

$$\sqrt{y-1} = a-1 \Rightarrow \sqrt{y-1} + 1 = a \Rightarrow \frac{1}{a}$$

$$y = \frac{1}{a^x - 3a}$$

$$\Rightarrow y a^x - 3 y a = 1 \Rightarrow y a^x - 3 y a - 1 = 0 \Rightarrow y a^x - 3 y a - 1 = 0$$

$$\Rightarrow y a^x - 3 y a - 1 = 0 \Rightarrow y a^x - 3 y a - 1 = 0$$

$$\Rightarrow y a^x - 3 y a - 1 = 0$$

$$y = -a^x - 3a - 3 \Rightarrow \frac{-y}{-1} = 3 \Rightarrow -9 + 1a + 3 = 14 \Rightarrow (-\infty, 14]$$

$$y = \sqrt{a^x - 3a - 3} \Rightarrow \frac{+}{-} = 3 \Rightarrow 3 - 1a - 3 < 0 \Rightarrow a^x \Rightarrow [0, +\infty)$$

$$y = \sqrt{3a - a^x} \Rightarrow \frac{-}{-} = 3 \Rightarrow 1a - 9 = 9 \Rightarrow a = 18 \Rightarrow (-\infty, 9] \Rightarrow [0, 9]$$

$$y = a^x - 3a^x + 3a + 1 \Rightarrow \mathbb{R}$$

$$y = \sqrt{a^x - 3a^x + 3a + 1} \Rightarrow \sqrt{\mathbb{R}} \Rightarrow [0, +\infty)$$

$$y = a^x - 3a^x + 3a + 1 \Rightarrow \mathbb{R}$$

$$y = (a^x - 3a^x + 3a + 1)^x \Rightarrow [0, +\infty)$$

$$y = \frac{3a+1}{a-3} \Rightarrow \mathbb{R} - \{3\}$$

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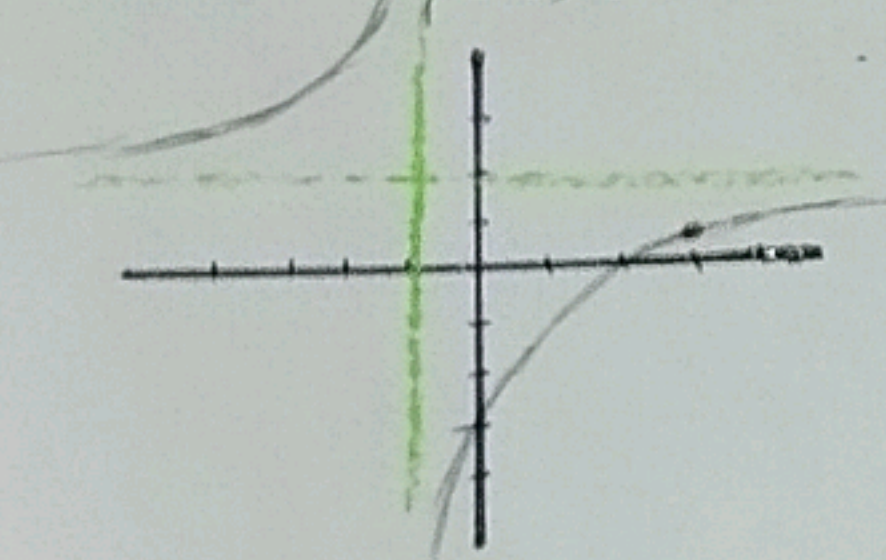
$$y = \sqrt{\frac{3a+1}{a-3}} \Rightarrow [0, +\infty) - \{3\} \Rightarrow [0, +\infty)$$

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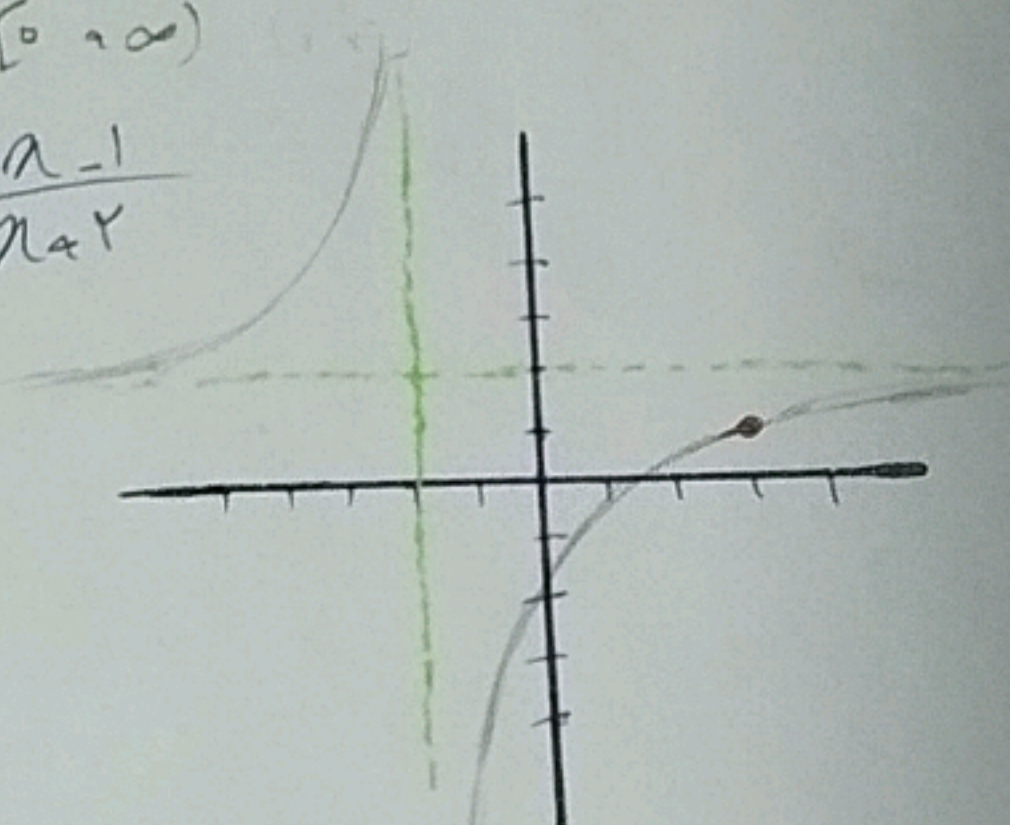
$$y = \frac{3a-3}{a+1}$$

افقی $\Rightarrow 3$
عمودی $\Rightarrow -1$

$$y = \frac{3a-3}{a+1} = \frac{3}{1} \Rightarrow y = \frac{3a-1}{a+1}$$



افقی $\Rightarrow 3$
عمودی $\Rightarrow -1$
 $3 \Rightarrow \frac{3}{1} = 3$



$$y = \sin a + \frac{1}{\sin a} \Rightarrow (-\infty, -2] \cup [2, +\infty)$$

$$y = \frac{a^x+1}{a^x} \Rightarrow a^x + \frac{1}{a^x} \Rightarrow (-\infty, -2] \cup [2, +\infty)$$

$$y = \sqrt{a^x - 1} \Rightarrow \sqrt{a} + \frac{1}{\sqrt{a}} \Rightarrow (-\infty, -2] \cup [2, +\infty)$$

$$y = \sqrt{a^x - 1} \Rightarrow \sqrt{a} + \frac{1}{\sqrt{a}} \Rightarrow (-\infty, -2] \cup [2, +\infty)$$

$$y = a^x - \frac{1}{a^x+3} \Rightarrow a^x - 3 = \frac{1}{a^x+3} \Rightarrow (a^x-3)^2 - 1 = 0 \Rightarrow (a^x+3-1)(a^x+3+1) = 0$$

$$\min \Rightarrow 0 \Rightarrow 3a \frac{1}{x} \Rightarrow 3 \frac{1}{x} - 3 \Rightarrow [\frac{1}{3}, +\infty)$$

$$y = \frac{a^x+5}{\sqrt{a^x+5}} \Rightarrow \sqrt{a^x+5} + \frac{1}{\sqrt{a^x+5}} \Rightarrow -x \Rightarrow [\frac{5}{x}, +\infty)$$

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$$y = \frac{a^x+5}{\sqrt{a^x+5}} \Rightarrow \sqrt{a^x+5} + \frac{1}{\sqrt{a^x+5}} \Rightarrow -x \Rightarrow [\frac{5}{x}, +\infty)$$

$$y = \frac{a^x+5}{\sqrt{a^x+5}} \Rightarrow \sqrt{a^x+5} + \frac{1}{\sqrt{a^x+5}} \Rightarrow -x \Rightarrow [\frac{5}{x}, +\infty)$$