

A positive, $\frac{1}{2}$ inch, $\frac{1}{4}$ inch

ii) $(r, r), (r, n'-n) \rightarrow n'-n \geq r \rightarrow n'-n-r \geq 0$ (1)

$$\rightarrow (n+1)(n-2) \rightarrow n = -1 \times 1 \text{ (L, E) } \checkmark$$

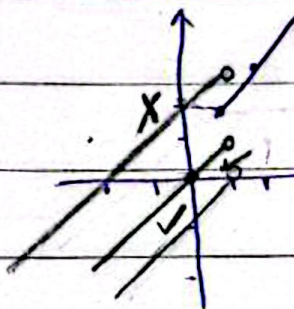
$$(r, r)(r, \omega)(m, r)(-1, r) \checkmark$$

$$1) (t, r) (m, r) \rightarrow m = r$$

$$(a, 1)(-1, 1) \rightarrow a = -1$$

$$(1, n)(1, r) \rightarrow \boxed{n=r} \checkmark$$

$$f(x) = \begin{cases} x_2 - 1; & x_1 > 1 \\ x_1 - 1; & x_1 \leq 1 \end{cases}$$



سید علی محمد (۲)

دائره نامه :
الملاحه منقول من كتاب

$$\Rightarrow a \in (-\infty, 1]$$

$$f(x) = \begin{cases} x_{n-1} ; x_{n,1} \\ a_{n+a-1} ; a_{n,0} \end{cases}$$

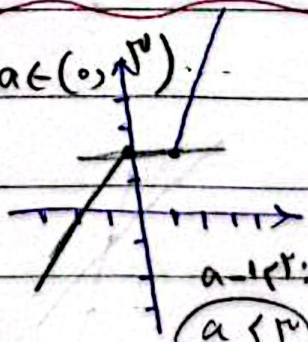
(1), (2): $a \in (0, \infty)$

✓ ayo ②

$$, a' - 1 = \gamma \lambda$$

$$a=0 \rightarrow y = -1 \times \frac{1}{-1} = 1$$

۵۲. → سید مرتضیٰ



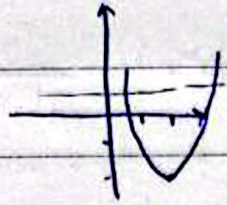
$$a \leq r$$

~~ii) $y = a^x$ $\rightarrow a^x = a^y \rightarrow x = y \Rightarrow x = y \checkmark$ (19)~~

$$p^{-1} \rightarrow x = y^r + \gamma \rightarrow y^r = x - \gamma \rightarrow y = \sqrt[r]{x - \gamma}$$



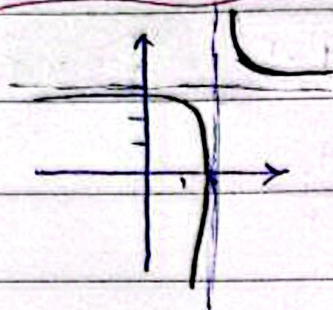
1) $x^2 \in \mathbb{R} \rightarrow$



√

(2)

2) $\frac{y^2}{x-1}$



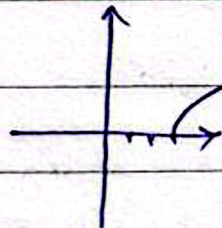
√

(3)

$\rightarrow x = \frac{y^2}{y-1} \rightarrow y(y-1) = y^2$
 $xy - y^2 = y^2 \rightarrow y(x-y) = y^2$
 $\rightarrow y = \frac{y^2}{x-y}$

3) $\frac{x^2+y^2}{x^2-y^2} \leq 1$ √

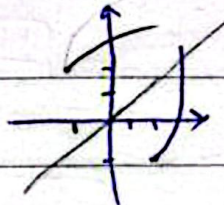
4) $y = \sqrt{x-1}$



√ : $x = y^2 + 1 \rightarrow x^2 = y^2 + 1$
 $y = x^2 + 1$

(4)

5) $x^2 \in \mathbb{R}, x \in [1, \infty)$



√

$\rightarrow y = 1 + \sqrt{x-1}$

6) $f(x) = x^2 \rightarrow f^{-1}(x) = \sqrt{x} \rightarrow y = \sqrt{x} \rightarrow x = y^2$

(5)

$(\sqrt{y} + 1/2)^2$
 $x + 1/2 = (\sqrt{y} + 1/2)^2 \rightarrow \sqrt{x+1/2} = \sqrt{y} + 1/2 \rightarrow \sqrt{y} = \sqrt{x+1/2} - 1/2$
 $y = x + 1/2 + 1/2 - \sqrt{x+1/2} \rightarrow y = x + 1 - \sqrt{x+1/2}$
 $a=1 \quad b=1/2 \quad c=-1/2$



$$p(x) = \frac{x}{\sqrt{x^2 - 1}} \rightarrow p^{-1}(x) = \frac{y}{\sqrt{y^2 - 1}} \quad (*)$$

نویسند: $y = \frac{x_1}{\sqrt{x_1^2 - 1}} \quad y = \frac{x_2}{\sqrt{x_2^2 - 1}}$

$$y = \frac{x_1}{\sqrt{x_1^2 - 1}} \quad y = \frac{x_2}{\sqrt{x_2^2 - 1}} \rightarrow \frac{x_1}{x_1^2 - 1} = \frac{x_2}{x_2^2 - 1}$$

$$* \rightarrow \frac{x_1}{x_1^2 - 1} = \frac{x_2}{x_2^2 - 1} \rightarrow x_1^2 x_2^2 - x_1^2 = x_1^2 x_2^2 - x_2^2 \rightarrow x_1^2 = x_2^2 \rightarrow x_1 = x_2$$

(نقشه/نقشه) $\rightarrow x_1 = x_2$
(نقشه/نقشه)

$$\Rightarrow x_1 = x_2 \checkmark$$

$$* \frac{y}{\sqrt{y^2 - 1}} = x \rightarrow \frac{y^2}{y^2 - 1} = x^2 \rightarrow y^2 - x^2 y^2 = y^2 \rightarrow y^2 - x^2 y^2 = y^2$$

$$y^2(1 - x^2) = y^2 \rightarrow y^2 = \frac{y^2}{1 - x^2}$$

$$\Rightarrow y = \pm \sqrt{\frac{y^2}{1 - x^2}}$$

$$\Rightarrow y = \frac{x\sqrt{1}}{\sqrt{1 - 1}} = \frac{x}{0}$$

$$p^{-1}(x) = \frac{x}{1 - |x|} \rightarrow x = \frac{y}{1 - |y|} \rightarrow x + x|y| = y \rightarrow x|y| - y = -x$$

$$x|y| - y = -x \rightarrow y(x - 1) = -x \rightarrow y = \frac{-x}{1 - x} \quad (y > 0)$$

$$-x|y| - y = -x \rightarrow y(-x - 1) = -x \rightarrow y = \frac{-x}{-x - 1} = \frac{-x}{-x - 1}$$

$$\Rightarrow f(-x/2) = \frac{-x/2}{1 - x/2} = \frac{-x/2}{1 - x/2} = \frac{-x/2}{1 - x/2}$$

$$g^{-1}(x) = x \sqrt{x^2 - 1} \rightarrow g(x) = x \sqrt{x^2 - 1} \rightarrow g^{-1}(x/2) = (x/2) \sqrt{(x/2)^2 - 1} = x/4$$

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$$1. \quad x = \sqrt[n]{y-1} \rightarrow x^n = y-1 \rightarrow y = x^n + 1 \Rightarrow g(x) = x^n + 1 \Rightarrow \sqrt[n]{x^n + 1} \quad (10)$$

$$2. \quad g'(x) \Rightarrow x = \frac{y^n}{n} \Rightarrow \sqrt[n]{y^n + 1} \rightarrow x = t^r + t \rightarrow t^r + t - x = 0$$

$$3. \quad b^c \cdot \varepsilon a c = 1 - (-\varepsilon n) = 1 + \varepsilon n$$

$$4. \quad t = \frac{-1 + \sqrt{1 + \varepsilon n}}{r} \Rightarrow \sqrt[n]{y^n + 1} = \frac{-1 + \sqrt{1 + \varepsilon n}}{r}$$

$$5. \quad \frac{1}{r} + x = \frac{1 + 1 + \varepsilon n - r \sqrt{1 + \varepsilon n}}{r} \quad (r \neq n - r \sqrt{1 + \varepsilon n})$$

$$6. \quad = \frac{1}{r} + x = \frac{\sqrt{1 + \varepsilon n}}{r} \rightarrow y^n = x - \frac{\sqrt{1 + \varepsilon n} - 1}{r}$$

$$7. \quad \Rightarrow y = \sqrt[n]{x - \frac{\sqrt{1 + \varepsilon n} - 1}{r}} \Rightarrow g^{-1}(x) \rightarrow g^{-1}(1/r) = \sqrt[n]{1/r} = \sqrt[n]{r}$$