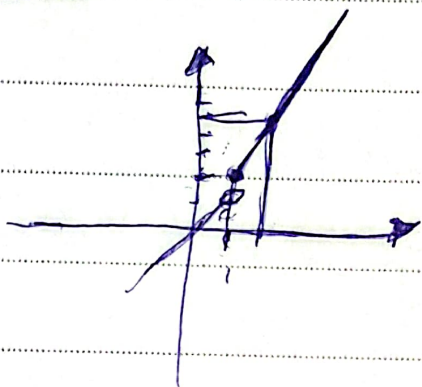


9

A = 2

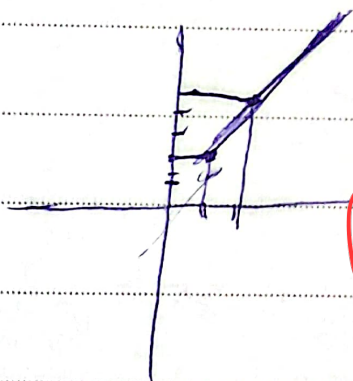
Q



$$1 + a < 1 \Rightarrow a < 0$$

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

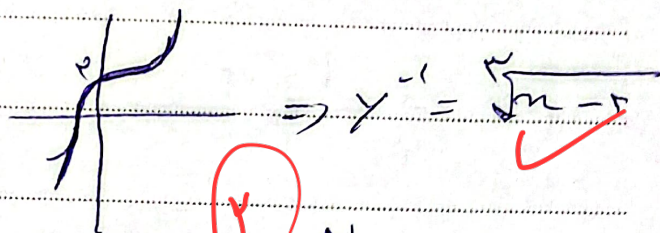
5



$$a > 0, a - 1 < r \Rightarrow a < r$$

$$\textcircled{\gamma} \Rightarrow a \in \mathbb{R} \cap [(-r, r))$$

① $\frac{1}{x} = x^{-1} \Rightarrow$

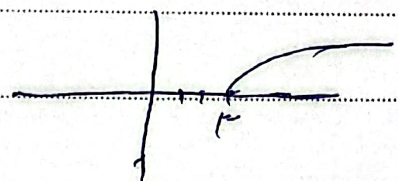


$$P_n + K = (n - r)t - T$$
 (Handwritten note: $\Rightarrow$ $\frac{P_n + K}{n - r} = t - \frac{T}{n - r}$)

دو گرامر است و یکی به این است $\Rightarrow \frac{n+1}{n-2}$ الف (د)

$$\frac{xy+1}{y-x} = n \Rightarrow y^{-1} = \frac{nx+1}{x-y} \quad \checkmark$$

$$b) y \leq 2 \Rightarrow \text{سوال به کجاست} \checkmark$$

$$c) y = \sqrt{x-2} \quad \text{یک ریشه است} \Rightarrow$$


$$y^{-1} = x^2 + 2 \quad x \in [0, +\infty)$$

$$b) y = x^2 - 4x + 2, x \in [2, +\infty)$$

$$\frac{-b}{2a} = \frac{4}{2} = 2 \Rightarrow \text{در این بازه یک ریشه است}$$

$$y = x^2 - 4x + 2 = (x-2)^2 - 2 \Rightarrow \sqrt{y+2} + 2 = x$$

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

$$d) y = x + \sqrt{x} = (\sqrt{x})^2 + \sqrt{x} + \frac{1}{4} - \frac{1}{4}$$

$$= (\sqrt{x} + \frac{1}{4})^2 - \frac{1}{4} \Rightarrow y^{-1} = \sqrt{x + \frac{1}{4}} - \frac{1}{4}$$

$$a+rb+tc=1$$

$$a=0, b=+\frac{1}{4}, c=\frac{-1}{4} \quad -1-1=\ominus 2$$

①

$$\left(\frac{n_1}{\sqrt{n_1^2-2}} - \frac{n_2}{\sqrt{n_2^2-2}} \right)^2 = \frac{n_1^2}{n_1^2-2} = \frac{n_2^2}{n_2^2-2}$$

$$\frac{n_1^2}{n_1^2-2} = \frac{n_2^2}{n_2^2-2} \Rightarrow n_1^2 = n_2^2$$

$$n_1 = n_2$$

— Arman —

که به قیاس

Subject: ()

Date: _____

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

(y)

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

⑨ $\sqrt{n} = \frac{-r}{a} + 1 \Rightarrow \sqrt{n} = \frac{r}{a} \Rightarrow n = \frac{a^2}{r^2}$
 $\Rightarrow g^{-1}\left(\frac{-r}{a}\right) = \frac{a}{r^2}$

(1)

$$\frac{n}{1+|x|} = -\frac{r}{a} \Rightarrow -a n = r + |x| \Rightarrow -a n - |x| = r$$

$$f\left(-\frac{r}{a}\right) = a$$

$$f^{-1}(a) = -\frac{r}{a} \rightarrow a = -\frac{r}{\mu}$$

$$\frac{a}{r^2} + \frac{-1}{r} = \frac{n - r^2}{a r} = \frac{-r}{a}$$

$$\frac{-r}{\mu} + \frac{a}{r^2} = \frac{-r\mu}{r^2 a}$$

b) $f(x) = x^2 + 1 \Rightarrow g(a) = x^2 + 1 + \sqrt{x^2 + 1}$

(y)

$$11 = x^2 + 1 + \sqrt{x^2 + 1} = 1 + \sqrt{9} = 11 \Rightarrow x = 3$$

(3)

Arman