

نام و نام خانوادگی: باسرخامه تشریحی تکلیف شماره ۱... کلاس ... مدرسه ...

الف)

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

~~در~~ y^2

y^2

$$x \cos y = y \cos x \Rightarrow \frac{\cos x}{x} = \frac{\cos y}{y} \Rightarrow \text{مشتق من} : x = \frac{\pi}{2} \Rightarrow \frac{\cos x}{x} = \frac{\cos y}{y}$$

ب)

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

ج)

$(y-x)(y^2+x^2)$

$$rx^2 + rx - 1$$

$$\Rightarrow f(-1) = 1 - b = a + 1 \Rightarrow a + b = \frac{1}{2}$$

$$\begin{cases} rx^2 + rx - 1 \\ a + 1x \\ -1 < x < 1 \end{cases}$$

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$$\sqrt{a-bx-x^2}$$

$$S = -\frac{b}{2a} \Rightarrow S = -\frac{b}{2} = a + b \Rightarrow -1b = a$$

$$\frac{b}{-1} + 1 = -$$

$$P = \frac{c}{a} \Rightarrow \frac{a}{-1} = b - 1 \text{ و } a^2$$

$$a + b = 1$$

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$$y = \frac{1}{\sqrt{ax^2 + bx + c}} \Rightarrow y^2 = \frac{1}{ax^2 + bx + c}$$

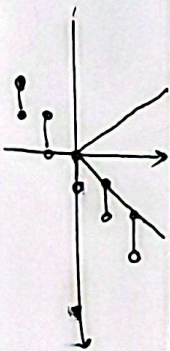
$$Dy = (-\infty, 1) \Rightarrow b < 0$$

$$x = 1 \Rightarrow \frac{1}{\sqrt{b+c}} = 0 \Rightarrow 1b + c \Rightarrow c = 1 - b$$

$$ra + c - 1|b| \Rightarrow c = 1 - b + 1b = b + 1$$

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$$|x| > [x] \Rightarrow$$



$$\Rightarrow x > 0$$

الف)

د

$$\sqrt{y} = -\sqrt{x} + 9 \Rightarrow$$

$$x \geq 0$$

$$-\sqrt{x} + 9 \geq 0 \Rightarrow 9 \geq \sqrt{x} \Rightarrow \sqrt{x} \leq 9$$

$$\Rightarrow x \leq 81$$

ب) جانب

$$\log r_{n-1} \Rightarrow r_{n-1} \neq 0 \Rightarrow \frac{r_{n-1}}{r} \neq \frac{1}{r}, \quad r_{n-1} > 0 \Rightarrow r > \frac{1}{r} \quad \text{المف } 1$$

$$\log r_{n-1} > 0 \Rightarrow \frac{r_{n-1}}{r} > 0 \Rightarrow \frac{r_{n-1}}{r} > 0 \Rightarrow r > \frac{1}{r}$$

$$\text{استدراك} \Rightarrow D_f \left(\frac{1}{r}, +\infty \right) - \left\{ \frac{1}{r} \right\}$$

$$c + \sqrt{|x|} - |x| \neq 0 \Rightarrow \sqrt{|x|} \neq |x| - c \Rightarrow |x|, x^2 - 11|x| + 4 \Rightarrow$$

$$|x|^2 - 11|x| + 4 \Rightarrow (|x| - 1)(|x| - 4) \neq 0 \Rightarrow x \neq \pm 1, \pm 4$$

$$r \notin D_f \quad r + b = 0 \Rightarrow b = -r$$

$$f(x) = \begin{cases} r_{n-1} & ; x > d \\ \sqrt{f(x) - x + 1} & ; x < d \end{cases}$$

$$\text{① } x > d \Rightarrow r_{n-1} - x + 1 > 0 \Rightarrow x < r_{n-1} + 1$$

$$\text{② } x < d \Rightarrow \sqrt{x + 1 - x + 1} > 0 \Rightarrow x > -1$$

$$\text{③ } x < -1 \Rightarrow x < -1 < x < 0$$

$$\text{④ } x > 0 \Rightarrow x > 0 > -1$$

$$\text{⑤ } x < -1 \Rightarrow x < -1 < x < 0$$

$$\text{⑥ } x > 0 \Rightarrow x > 0 > -1$$

$$\text{⑦ } x < -1 \Rightarrow x < -1 < x < 0$$

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$$\text{㊾ } x < -1 \Rightarrow x < -1 < x < 0$$

$$\text{㊿ } x > 0 \Rightarrow x > 0 > -1$$

$$\frac{r(1 + r + 12r^2 + 4r + 1)}{(12r^2 + 4r + 1)^r} = \frac{r(1 + r + 1)^r}{(12r^2 + 1)^r} = \frac{r_{n+1} \neq 0}{r_{n+1}} = \frac{r}{r_{n+1}}$$

$$x \neq -\frac{1}{r} \Rightarrow D_f = \mathbb{R} - \left\{ -\frac{1}{r} \right\}$$

$$1 - \log(r_{n-1}) > 0 \quad 1 > \log(r_{n-1}) \quad 1 > r_{n-1} - a \quad \frac{1+a}{r} > r$$

$$r_{n-1} > 0 \Rightarrow r > \frac{a}{r}$$

$$\left(\frac{a}{r} \right)^b \times r \ll \left(\frac{1}{r} + \frac{a}{r} \right)^c \quad c - b > d + \frac{a}{r} - \frac{a}{r} = d$$