

Subject:

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19 آفرین

شماره مسلسل: ۱

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$$f(x) = ax + b$$

$$f(r) = ra + b$$

$$f(r+1) = a(r+1) + b$$

$$f(m+r) = a(m+r) + b$$

$$ra + a + b = ar + ra + b = r + ra + b$$

$$(ra)x + ra + rb = rx + ra + b$$

$$rb = b \Rightarrow b = 0 \quad ra = r \quad a = 1 \quad f(x) = x$$

$$y = \sqrt{x - x^2}$$

$$Ry = [-\infty, \frac{1}{2}]$$

$$Ry = [0, \frac{1}{2}]$$

$$-\frac{b}{ra} = \frac{1}{r}$$

$$r = \frac{1}{2} \quad \text{و } r = \frac{1}{2} \quad \text{و } r = \frac{1}{2}$$

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$$y = \frac{x^r - \varepsilon}{m+r}$$

$$y = \frac{x(m^r - \varepsilon)}{m+r} = \frac{x(m-r)(m+r)}{m+r}$$

$$x \neq -r$$

$$y = m^r - rm$$

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

$$y_1 = (1)^r - r(1) = -1$$

$$Ry = [-1, +\infty)$$

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$$x^r - rm = 1 \quad x^r - rm = 1 \quad x^r - rm = 1 \quad x^r - rm = 1$$

$$(x \neq 1) \quad Ry = [1, +\infty), -r]$$

$$c = -1 \quad a = 1 \quad b = -r$$

$$f\left(\frac{\varepsilon + (-r)}{-1 \times r}\right) = f\left(\frac{-r}{-r}\right) = (-r)^r - r(-r) = 1$$

$$f(-r) = 1$$

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$$y = \sqrt[m]{x^r + ax^r + bx - 1} \rightarrow y = \sqrt[m]{(x-r)^r}$$

$$y = x - r$$

$$y = \sqrt{x^r - 4x^r + 12x - 1}$$

$$y = -4 - r = -1$$

$$a = -4 \quad b = 12$$

$$y = 12 - r = 10$$

$$Ry = [-4, 12]$$

$$Ry = [-1, 10]$$

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Medina

(۴) - می دانم در عبادت بتوان سر رسید که هر کس عبادت است.

$$\frac{n+1}{1-n} \rightarrow -\frac{-1}{-1} + \frac{1}{-1} = - \quad \text{ny} = [-1, 1) \quad (2)$$

پہلی تابع y کی ایک مشتق شدہ قدر $x^2 + \infty$ دیکھ کر دیکھیں کہ قدر x^2 ہے۔

$$ax + by = \frac{0-1}{0+b} = -1$$

$$a^r \rightarrow +\infty \text{ e } a$$

$$\text{Rgyr} = [-\frac{1}{b}, a) \cup [-1, 1) \Rightarrow \begin{matrix} b \geq 1 \\ a \geq 1 \end{matrix}$$

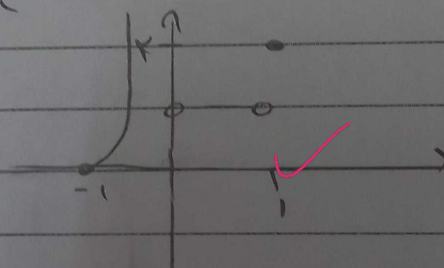
$$-\frac{1}{b} \quad -1 \quad a \geq 1$$

$$a + b = r$$

$$-1 \leq x \leq 0 \quad y = \frac{-1}{x} + \frac{-x}{x} = \frac{-1}{x} - 1$$

$$0 < x < 1 \quad y = \frac{0}{x} + 1 = 1$$

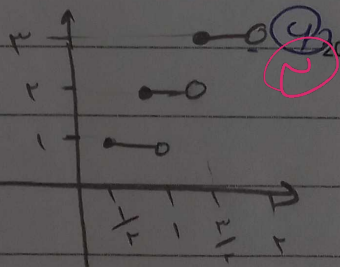
$$n=1 \quad y=r$$



$$\frac{1}{r} \leq x < 1 \rightarrow 0 + 1 = 1$$

$$1 \leq n < \frac{n}{2} \rightarrow 1 + 1 + 2 + \dots$$

$\frac{r}{1+r} \leq n < r \rightarrow 1+r \leq n$



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$$y = \left| \frac{x+1}{a+1} \right| < 1$$

$$Dy \in (b, +\infty)$$

1.8

$$x \in (b, +\infty)$$

$$\left| \frac{x+1}{a+1} \right| \geq 0$$

$$\left| \frac{b+1}{a+1} \right| = 1$$

$$b-a \geq 2$$

$$b+a \geq -2$$

$$x \in (b, +\infty)$$

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$$D = -1 \quad a \geq 1$$

$$if \ a = 1$$

$$|x+1| < |x+1|$$

$$\left| \frac{b+1}{a+1} \right| = 0 \Rightarrow b = -1$$

$$b = -2$$

$$\left| \frac{+\infty+1}{a(+\infty)+1} \right| = \left| \frac{1}{a} \right| \geq 1 \quad a = \pm 1$$

$$x \in (b, +\infty)$$

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$$a-b \geq -1 - (-1) = 0$$

$$a-b \geq 1 - (-1) = 2$$

$$|x-2| + |y-1| \geq 3$$

$$x-2 \leq 0 \quad x \geq 2 \quad y-1 \leq 0 \quad y \geq 1$$

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$$x-2+y-1 \geq 3$$

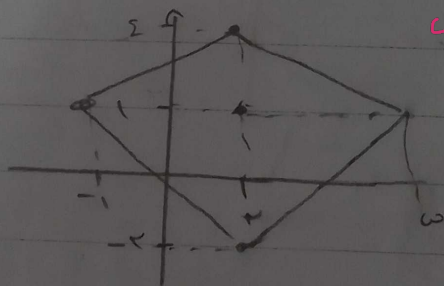
$$x+y \geq 6 \Rightarrow y \geq -x+6$$

$$-x+2+y-1 \geq 3$$

$$-x+y+1 \geq 3$$

$$y \geq x+2$$

$$y \geq x$$



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تولید

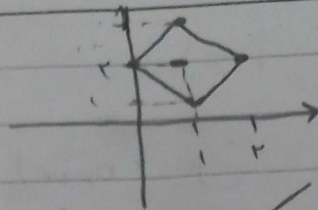
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$$|m-1| + |y-2| = 1$$

$$m \geq 1 \quad y \geq 2$$

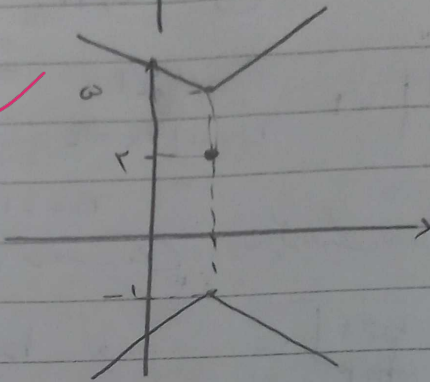


(1)

(2)

$$|m-1| - |y-2| = -3$$

$$|y-2| - |m-1| = 3$$



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$$y = \pm m + |am + b|$$

$$-\frac{b}{a}$$

رابطه قدر مطلق

(3)

(2)

$$y = \begin{cases} (1+a)m + b & -\frac{b}{a} \leq m \\ (1-a)m - b & -\frac{b}{a} > m \end{cases}$$

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$$-\frac{b}{a} > m$$

$$1-a > 0, 1+a > 0$$

موردی که a و $-a$ نامنفی است (مثبت است) پس

و این الزامی این است بر تمام برابر 18

$$1+a > 0$$

$$a > -1$$

$$1-a > 0$$

$$a < 1$$

$$-1 < a < 1$$

$$|a| < 1$$

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