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المعادلات الخطية

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

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

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

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

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

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

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

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

$$R y = \sqrt{(-\infty, \frac{1}{2}]}$$

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

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

$$\Rightarrow \frac{1}{r} = \frac{1}{r} \quad \text{بالتالي}$$

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

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

$$x \neq -r$$

$$y = m^r - rm$$

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

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

$$R y = [-1, +\infty)$$

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$$x^r - rm = 1 \quad x^r - rm - 1 = 0 \quad m^2 - r \quad \text{عوضه}$$

$$(m \neq 1) \quad R y = [r - \frac{1}{2}, -r]$$

$$x = \frac{1}{2}$$

$$c = -1$$

$$a = \varepsilon$$

$$b = -r$$

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

$$f(-r) = 1$$

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$$y = \sqrt[3]{x^3 + ax^2 + bx - 1} \rightarrow y = \sqrt[3]{(x-r)^3}$$

$$y = x - r$$

$$y = \sqrt{x^3 - 4x^2 + 12x - 1}$$

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

$$a = -4$$

$$b = 12$$

$$y = 12 - r = 10$$

$$R y = [-4, 12]$$

$$R y = [-1, 10]$$

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

$$\frac{m+1}{1-m} \rightarrow -\frac{-1}{-1} + \frac{1}{-1} = \quad \text{Dy, z } [-1, 1)$$

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

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

$$a^r_2 + \infty \in a$$

$$R_{g_1} = [-\frac{1}{b}, a) \cup [-1, 1) \rightarrow b \geq 1$$

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

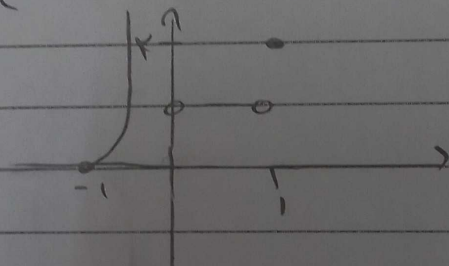
$$a + b = r$$

$$-1 \leq x < 0 \quad y = \frac{-1}{x} + \frac{-n}{n} = \frac{-1}{n} - 1 = - \quad \textcircled{2}$$

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

$$n = 1$$

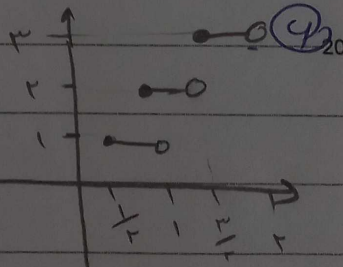
y = 2



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

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

$$\frac{r}{1+r} \leq n < r \quad \longrightarrow \quad 1+r \quad 2 \quad r$$



سوال نمبر 1

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$$y = \left| \frac{x+1}{a+3} \right| < 1$$

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

(V)

$$x \in [0, \infty) \text{ میں } (b, +\infty)$$

$$\left| \frac{x+1}{a+3} \right| \geq 0$$

$$\left| \frac{b+1}{ab+3} \right| = 1 \quad b-ab \geq 2$$

$$b+ab \geq -2$$

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$$D = -1 \quad a \geq 2$$

مقامی ٹیسٹ میں، دو سوئچز ایک نیت

$$\left| \frac{b+1}{ab+3} \right| \geq 0 \Rightarrow b = -1$$

$$x \in [0, +\infty)$$

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$$\left| \frac{+\infty+1}{a(+\infty)+3} \right| \geq \left| \frac{1}{a} \right| \geq 1 \quad a = \pm 1$$

$$a-b \geq -1 - (-1) = 0 \quad a-b \geq 1 - (-1) = 2$$

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

(A)

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

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

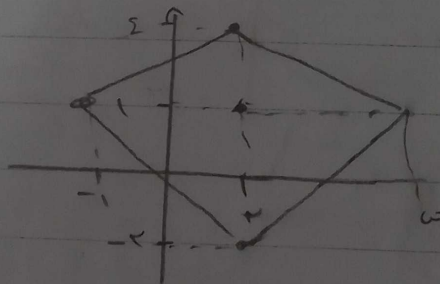
$$x+y \geq 6 \Rightarrow y \geq -x+6$$

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

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

$$y \leq x+2$$

$$y \geq x$$



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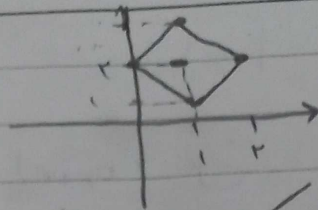
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$$|m-1| + |y-2| = 1$$

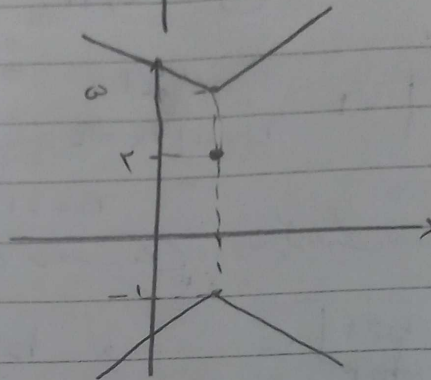
$$m \geq 1 \quad y \geq 2$$



(1)

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

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



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$$y = km + |am + b| \quad \text{رابطه قدر مطلق} \quad (10)$$

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

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موردی از a و $-a$ ناغنی است. اقلیت است پس
و این الزامی این است بر تمام برابر ۱۸

$$k+a > 0 \quad a > -k$$

$$k-a > 0 \quad a < k$$

$$-k < a < k$$

$$|a| < k$$

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