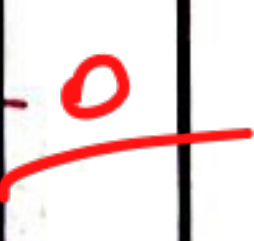


A hand-drawn red smiley face consisting of a curved line for a mouth and a small circle for an eye.

1, V₀



A hand-drawn red circle with a horizontal line passing through its center, resembling a stylized '0' or a simple face.

(c)

$$a^2 - 3 \geq 1$$

$$a^2 \geq 4 \quad \begin{matrix} a \geq 2 \\ a \leq -2 \end{matrix}$$

$a = (-\infty, -2] \cup [2, +\infty)$ ✓

$\cup a^2 - 3 = 0 \rightarrow a = \pm \sqrt{3}$

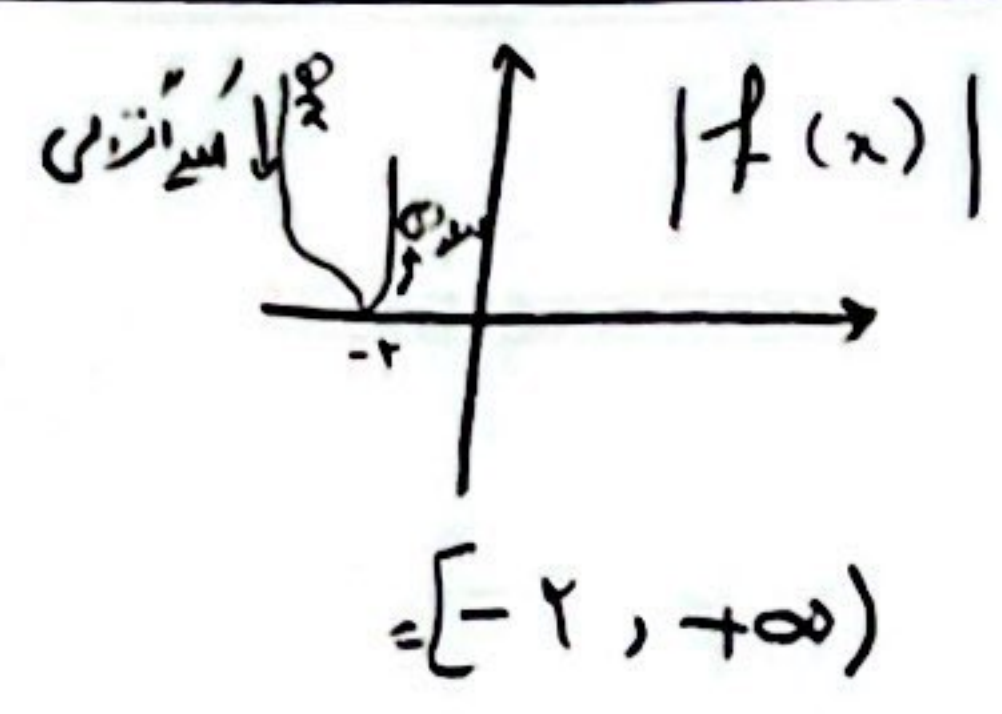
(الف)

$$a^2 - 3 > 1$$

$$a^2 > 4 \quad \begin{matrix} a > 2 \\ a < -2 \end{matrix}$$

$a = (-\infty, -2) \cup (2, +\infty)$ ✓

چون سوال نلغته تابع خارج!



$|f(x)|$

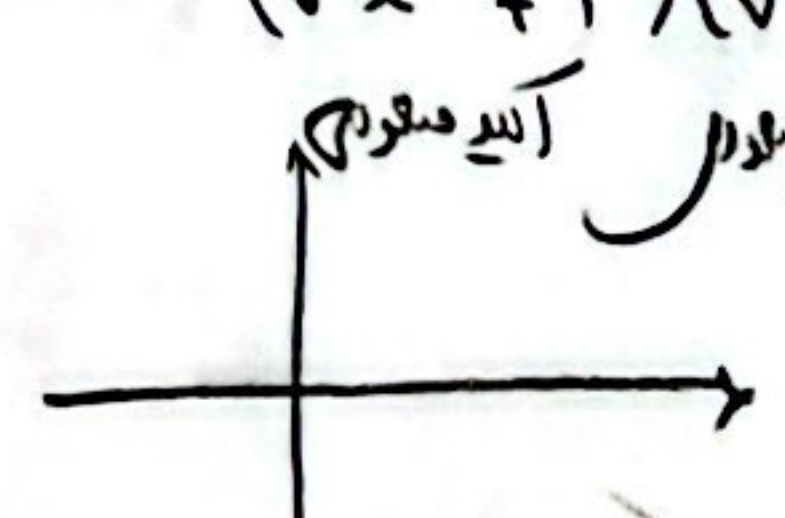
$[-2, +\infty)$

$y = (x+2)^3 - 1$

$1 = (x+2)^3$

✓ $K = -2$

$f(x) = (\sqrt{x} + 2)(\sqrt{x} - 1)$ أسيموت



أسيموت

$f(\sqrt{x}) \leq \sqrt{x}$

$x + \sqrt{x} - 2$

$x \geq 0$ (1) $x \leq 2$ (2) $\rightarrow [0, 2]$

دو عدد

$[1, 2]$

$f(0) = -2, f(2) = 2$

نوع سؤال ← 2, 1, 0

1

$0 < \cos^2 x \leq 1$

$0 < 9 \cos^2 x \leq 9 \rightarrow -1 \leq 9 \cos^2 x - 1 \leq 8$

$0 \geq -9 \cos^2 x \geq -9$ min = $-\frac{9}{2}$

$1 \geq 1 - 9 \cos^2 x \geq -8$ max = $\frac{15}{2}$

$b - a = \frac{21}{2}$

$\sqrt[3]{9 \cos^2 x - 1} - \sqrt[3]{1 - 9 \cos^2 x}$

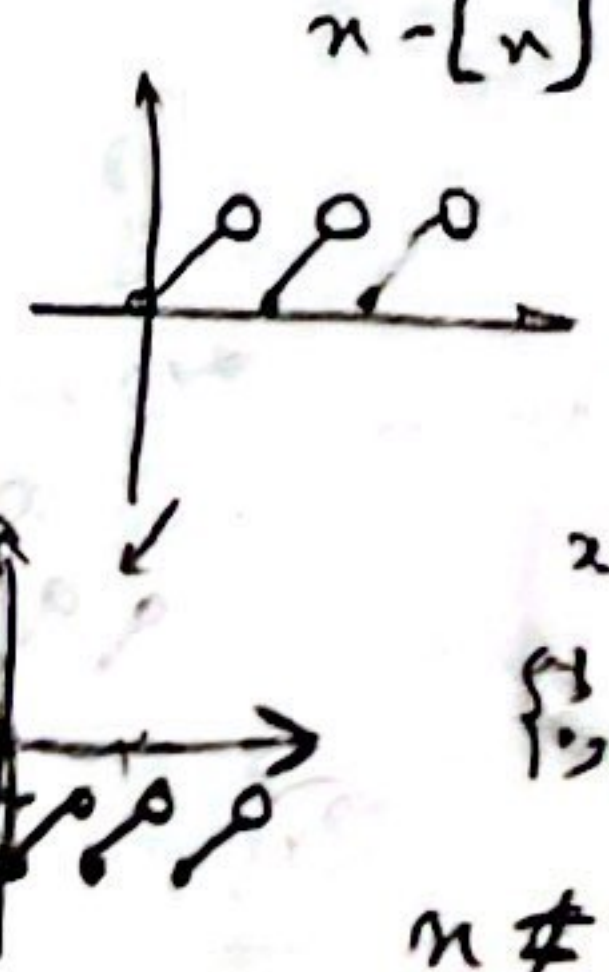
$[a, b] = [\frac{1}{2}, 2] \rightarrow b - a = 4 - \frac{1}{2} = \frac{7}{2}$

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

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

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

$n = [n]$



$g \circ f(x) = \frac{f(x)}{2} - f(x)$

$f(x) = -x$

$x = 2 \rightarrow \frac{2^{-2} - 2^2}{2} = \frac{\frac{1}{4} - 4}{2} = -\frac{15}{4}$

$x \neq 2 \rightarrow \frac{2^{-1} - 2^1}{2} = \frac{\frac{1}{2} - 2}{2} = -\frac{3}{4}$

$\frac{-15}{4}$

$\frac{-3}{4}$

$g \circ f = \frac{-15}{4}$

$[-\frac{15}{4}, -\frac{3}{4}]$

$2x - [x+2] = x - (x+2)$

$2x - x - 2 = x - 2$

$x = 2 \rightarrow 2 - 2 = 0$

$x \neq 2 \rightarrow x - 2$

$2x - [x+2] = x - 2$

$2x - x - 2 = x - 2$

$x = 2 \rightarrow 2 - 2 = 0$

$x \neq 2 \rightarrow x - 2$