

آسیا رسی

۷/۲۵ خواناد ب تب نویسی

$$y^2 - 2x = 2x^2$$

$$|y| + x^2 = x + 3$$

مشق نیست!

۱.۷۵

$$\sqrt{x-4} + |y-2| \geq 0$$

$$\sqrt{x-4} \geq 0 \quad |y-2| \geq 0 \quad \begin{cases} x \geq 4 \\ y \geq 2 \end{cases}$$

$$x \geq \cos y$$

تابع نیست چرا؟

$$x \geq 1 \rightarrow y \geq 2k\pi$$

$$x+1$$

$$x^2 - 1^2$$

$$x^2 - 1 \geq 0 \rightarrow x \geq 1$$

$$x+1$$

$$x^2 - 7x + 12$$

$$\Delta = b^2 - 4ac = 49 - 48 = 1 > 0$$



$$y \geq \sqrt{9-x} + \sqrt{x-1} \rightarrow \begin{cases} 9-x \geq 0 \rightarrow x \leq 9 \\ x-1 \geq 0 \rightarrow x \geq 1 \end{cases} \rightarrow 1 \leq x \leq 9$$

$$y \geq x+1$$

$$+ (x^2+1)$$

$$y = \sqrt{x-1}$$

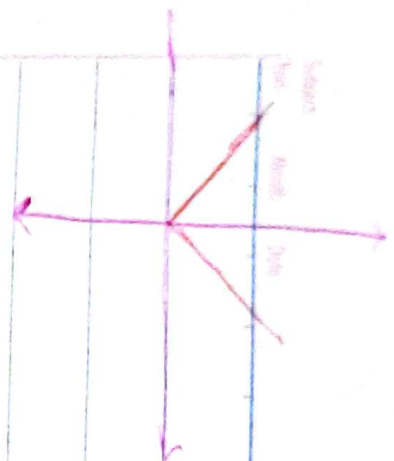
$$x-1 \geq 0 \rightarrow x \geq 1$$

$$x-1 \neq 0 \rightarrow x \neq 1 \rightarrow (1, \infty) - \{1\}$$

$$y = \frac{x+3}{|x|+x^2}$$

$$|x| + x^2 \neq 0$$

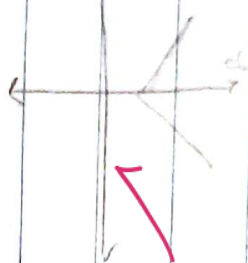
$$x \geq 0 \rightarrow 1$$



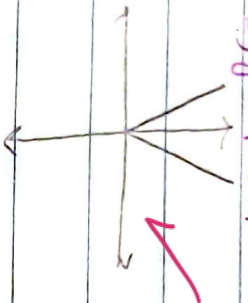
مقدار تابع زوج $y = |x|$ است

(2)

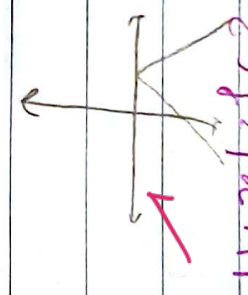
مثال 1: $|x+1|$



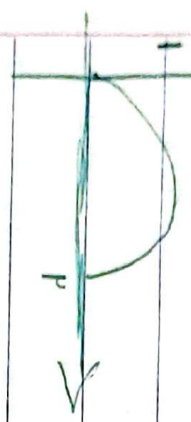
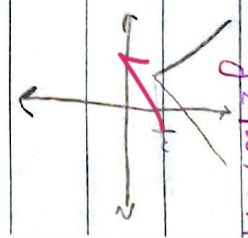
مثال 2: $|x|$



مثال 3: $|x+1|$

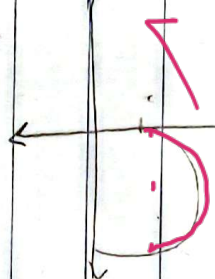


مثال 4: $|x+1|$

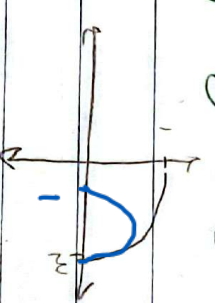


0 - $f(x)$ در $x=0$ به حداقل می‌رسد.

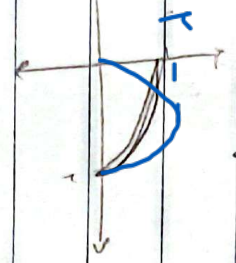
مثال 1: $f(x) = x^2 + 1$



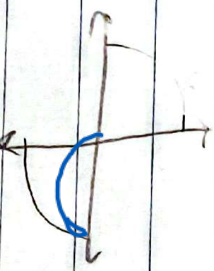
$f(x-1)$



مثال 2: $f(x)$



$-f(x)$



$f_2(x-1)(x-1)(x-1)$

مثال 3: $f_2(x-1)$

$f_2(x-1)(x-1)(x-1)$

مثال 4: $f_2(x-1)$

$f_2(x-1)(x-1)$

مثال 5: $f_2(x-1)(x-1)$

$f_2(x-1)(x-1)$

مثال 6: $f_2(x-1)(x-1)$

$f_2(x-1)(x-1)$

مثال 7: $f_2(x-1)(x-1)$

مثال 8: $f_2(x-1)(x-1)$

سوال ۱

(الف)
$$\begin{array}{c|ccc} & 1 & 2 & 3 \\ \hline & - & + & - \\ \hline & + & - & + \end{array}$$

(ب)

$$\begin{array}{c|ccc} & 1 & 2 & 3 \\ \hline & + & + & - \\ \hline & + & - & + \end{array}$$

جدول تعیین علامت

$$y = \frac{x^3 - 2x + 1}{x - 2}$$

$$y = \frac{x^3 - 5x + 2}{x^2 - 4x + 2}$$

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

$$y = \frac{x^4 + x^2 + 2}{x^2 + 2x + 1}$$

$$y = \sqrt{\frac{x^3 - 1}{x^3 - x}}$$

جدول!

$$y = \sqrt{\frac{x^2 - 19}{x^2 - 5x + 6}}$$

$(x-2)$	$(x-3)$	$(x-4)$	$x-5$	$(x-2)^2$	$x-2$	$x-1$	$x-2$	$x-3$	$x-4$	$x-5$	$x-6$
+	-	-	-	+	-	-	-	+	+	+	+
+	-	-	-	+	-	-	-	+	+	+	+
+	-	-	-	+	-	-	-	+	+	+	+
+	-	-	-	+	-	-	-	+	+	+	+
+	-	-	-	+	-	-	-	+	+	+	+
+	-	-	-	+	-	-	-	+	+	+	+