

۱۴,۲۵

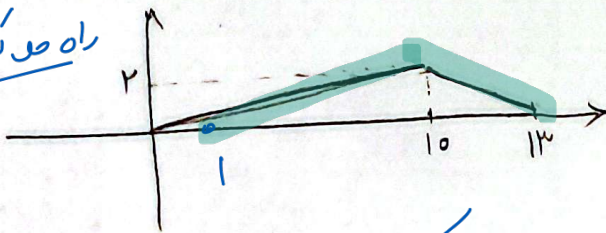
الف) $3x - 2 = -4 \Rightarrow 3x = -2 \Rightarrow x = -\frac{2}{3}$ $x \in [-\frac{2}{3}, \frac{4}{3}]$
 $3x - 2 = 2 \Rightarrow 3x = 4 \Rightarrow x = \frac{4}{3}$

ب) $x = -4$ $3x - 2 = 3(-4) - 2 = -14$
 $x = -2$ $3x - 2 = 3(-2) - 2 = -8$ $x \in [-14, -1]$

$x - 2 + \sqrt{x - 4} = x \Rightarrow \sqrt{x - 4} = 2 \Rightarrow x - 4 = 4 \Rightarrow x = 8$

و $y = x$ و این تابع خود تابع اقلع کرده و نیازی به وارد کردن برای پیدا کردن آن نقطه نیست!

راه دو حالت



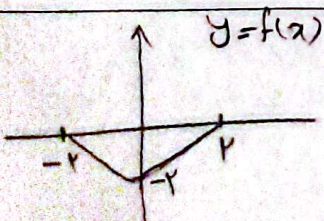
$S = \frac{13 \times 2}{2} = 13$

$0 \leq x \leq 2 \rightarrow 1 \leq 3x + 1 \leq 13$

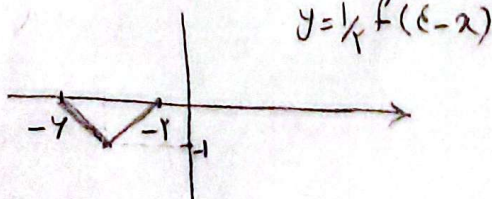
دست‌کف $S = \frac{12 \times 1}{2} < 12$

$A' = \begin{vmatrix} 4+a \\ a-7 \end{vmatrix}$

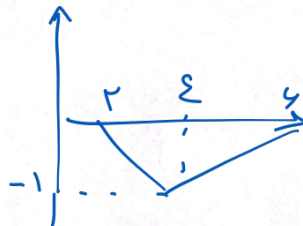
$a - 4 = 2(4 + a) - 1 \Rightarrow a - 4 = 2a \Rightarrow a = -4$

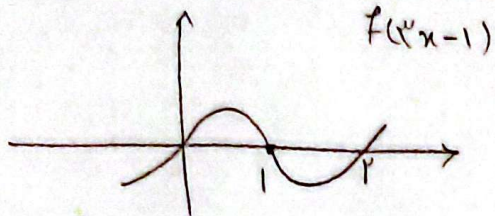


$-2 < x < 2$



$2 \leq 4 - x \leq 4$





	-2	0	1	2
$-(x+2)$	+	0	-	-
$f(x-1)$	-	-	+	+
		+		+

$$x \in [-2, 0] \cup [1, 2]$$

$$g(x) = |2(x+k) - 3| - 2, \quad f(0) = g(0)$$

$$x=0 \quad |2(k) - 3| - 2 = |-2| + 1 \Rightarrow |2k - 3| = 4 \Rightarrow 2k - 3 = \pm 4$$

$$2k = 7 \Rightarrow k = \frac{7}{2}$$

$$2k = -1 \Rightarrow k = -\frac{1}{2} \quad \text{مردود}$$

$$k < \frac{2n-1}{n+1} + \frac{2n+5}{n+2} \rightarrow (k-2)n^2 + \varepsilon n(k-1) + 5k+4$$

مردود (2)

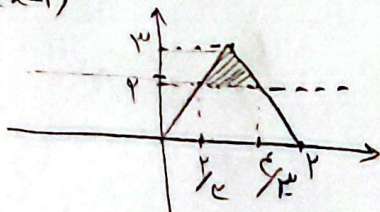
$$[k < 5]$$

① $\Delta < 0$ منصف من غير

② $\Delta > 0$ $n < -1$ من غير

③ $\Delta > 0$ $n < -2$ من غير

$$y = f(x-1)$$



$$S = \frac{\frac{1}{2} \times 1}{2} = \frac{1}{4}$$

$$\frac{(a-2)(a-2)}{2} + \frac{2(\varepsilon)}{2} = \frac{9}{2}$$

$$\frac{(a-2)^2}{2} = \frac{1}{2} \Rightarrow a - \varepsilon a + 2 = 1 \Rightarrow a^2 - \varepsilon a + 3 = 0$$

$$(a-1)(a-3) = 0 \Rightarrow a = 1 \quad \text{أو} \quad a = 3$$

$$f(x) = |x-3| - 2$$

$$f(\frac{1}{2}) = |\frac{1}{2} - 3| - 2 = \frac{7}{2}$$