

$y_1^3 = 2x_1^2 - 1$
 $y_2^3 = 2x_2^2 - 1$

$y_1^3 = y_2^3 \rightarrow y_1 = y_2$
 $91 = 92$

$12, 75$

$y_1 = -y_2 \pm \sqrt{y_1^2 - 4x_1x_2}$
 $y_1 = -y_2 \pm \sqrt{y_1^2 - 4(2x_1^2 - 1)(2x_2^2 - 1)}$
 $y_1 = -y_2 \pm \sqrt{y_1^2 - 4(2x_1^2 - 1)(2x_2^2 - 1)}$ تابع است $\Rightarrow y = \sqrt{2x^2 - 1}$

سوال تعریف سیاقی خواسته

$y_1^3 - y_2^3 + y_1 - y_2 = 0 \Rightarrow y_1^3 - y_2^3 + y_1 - y_2 = 0$
 $y_1^3 - y_2^3 + y_1 - y_2 = 0 \Rightarrow y_1^3 - y_2^3 + y_1 - y_2 = 0$

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$y_1^3 - y_2^3 + y_1 - y_2 = 0 \Rightarrow y_1^3 - y_2^3 + y_1 - y_2 = 0$
 $y_1^3 - y_2^3 + y_1 - y_2 = 0 \Rightarrow y_1^3 - y_2^3 + y_1 - y_2 = 0$

$y_1^3 - y_2^3 + y_1 - y_2 = 0 \Rightarrow y_1^3 - y_2^3 + y_1 - y_2 = 0$
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 $y_1^3 - y_2^3 + y_1 - y_2 = 0 \Rightarrow y_1^3 - y_2^3 + y_1 - y_2 = 0$

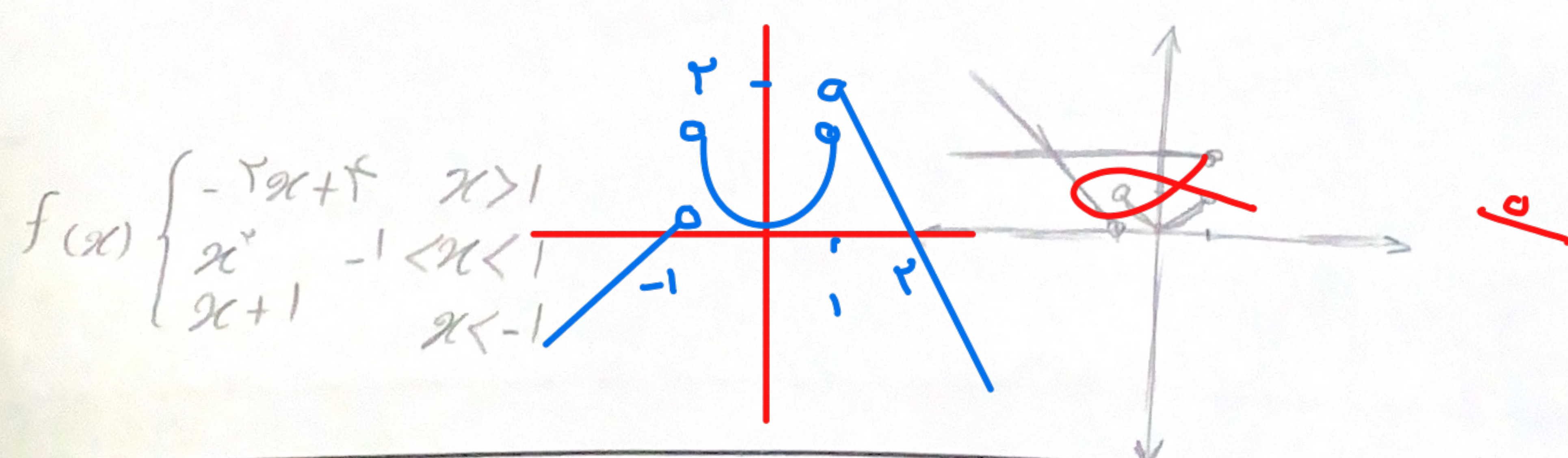
$y_1^3 - y_2^3 + y_1 - y_2 = 0 \Rightarrow y_1^3 - y_2^3 + y_1 - y_2 = 0$
 $y_1^3 - y_2^3 + y_1 - y_2 = 0 \Rightarrow y_1^3 - y_2^3 + y_1 - y_2 = 0$

$\tan \frac{\pi}{3} = \frac{\sin \frac{\pi}{3}}{\cos \frac{\pi}{3}} = \frac{\frac{\sqrt{3}}{2}}{\frac{1}{2}} = \sqrt{3}$
 $\cot + \frac{\sqrt{3}}{4} = \frac{\cos \frac{\sqrt{3}}{4}}{\sin \frac{\sqrt{3}}{4}} = \frac{-\frac{\sqrt{3}}{4}}{-\frac{1}{4}} = \sqrt{3}$

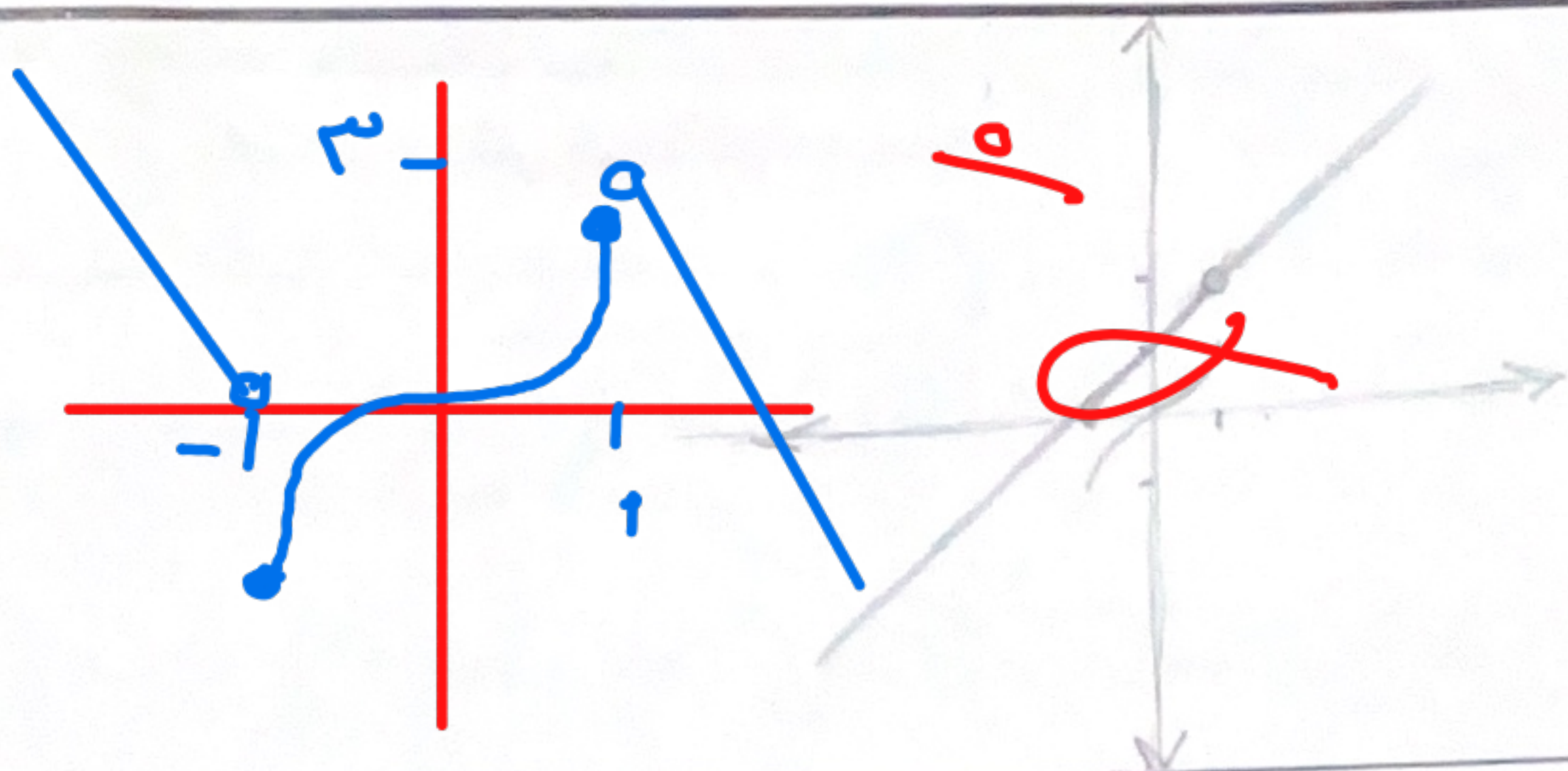
$\tan 33^\circ = \frac{\sin 33^\circ}{\cos 33^\circ} = \frac{\frac{1}{\sqrt{3}}}{\frac{\sqrt{3}}{2}} = -\frac{1}{\sqrt{3}}$
 $\cot 11^\circ = \frac{\cos 11^\circ}{\sin 11^\circ} = \frac{-1}{0} \Rightarrow$ تعریف نشده

$\sin \alpha = \frac{1}{4} \Rightarrow \alpha = 30^\circ, 150^\circ / \frac{\pi}{4}, \frac{5\pi}{4}$

$\cos \alpha = \frac{\sqrt{2}}{4} \Rightarrow \alpha = 45^\circ, 315^\circ / \frac{\pi}{4}, \frac{7\pi}{4}$



$$f(x) = \begin{cases} -x+3 & x > 1 \\ x^3 & -1 \leq x \leq 1 \\ -x-1 & x < -1 \end{cases}$$



الف) $y = (x-2)(x-3)(x-4) \Rightarrow$

ب) ✓

ب) $y = (x-2)(x-3)^2(x-4) \Rightarrow$

الف) $\frac{(x-2)(x-4)}{(x-3)}$

ب) $\frac{(x-2)(x-4)}{(x-3)^2}$

ب) ✓

الف) $\frac{x^3-3x+2}{(x-3)} = \frac{(x-1)(x+2)(x-1)}{(x-3)} \Rightarrow$

ب) $\frac{x^2-3x+2}{x^2-4x+3} = \frac{(x-2)(x-1)}{(x-3)(x-1)} \Rightarrow$

ب) ✓

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

ب) ✓

ب) $\frac{x^2+3x+4}{x^2+12x+3} = \frac{(x+1)(x+4)}{x^2+12x+3} \Rightarrow x \in \mathbb{R} \Rightarrow$

۲- این شکل یکپیش

$$y = x^2 - 1$$

تابع است.

