

تاریخ

①  $C_{10}$   
 $24 = 24$

تابع دوست

A hand-drawn graph of a parabola on a Cartesian coordinate system. The parabola opens upwards, indicating a positive leading coefficient. The vertex of the parabola is located on the y-axis at the point (0, -1), which is labeled with a '-1' on the y-axis. The parabola passes through the points (-1, 0) and (1, 0) on the x-axis.

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$$\therefore \cot \frac{\sqrt{2}\pi}{4} = \frac{\cos \sqrt{2}\pi/4}{\sin \sqrt{2}\pi/4} = \frac{-\sqrt{2}}{1} \times \frac{-1}{1} = \sqrt{2}$$

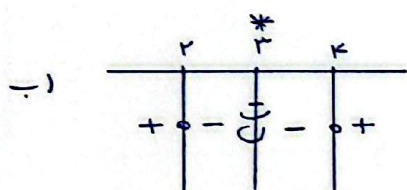
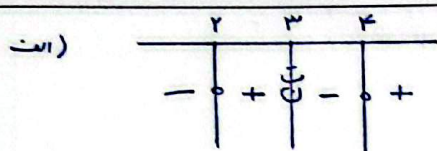
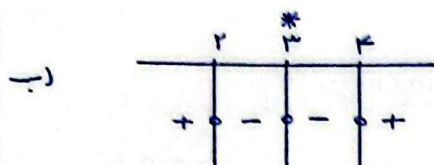
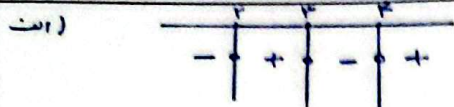
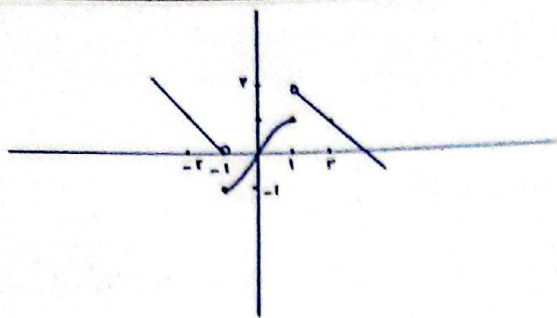
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تعريف:  $\cot \pi = \frac{\cos \pi}{\sin \pi} = \frac{-1}{0} \rightarrow$

الف)  $\alpha = \frac{\pi}{4}, \frac{5\pi}{4}$

$$\therefore \alpha = \frac{\pi}{K}, \frac{\sqrt{\pi}}{K}$$

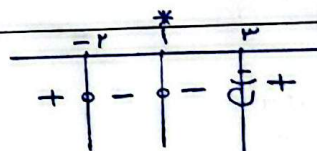




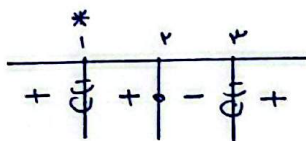
الف)  $x^4 - 3x + 2 \mid x-1$   $x^4 - 3x + 2 = (x-1)^2(x+2)$

$$\begin{array}{r} x^4 - 3x + 2 \\ -x^4 + x^3 \\ \hline x^3 - 3x + 2 \\ -x^3 + x^2 \\ \hline x^2 - 3x + 2 \\ -x^2 + 3x - 2 \\ \hline 0 \end{array}$$

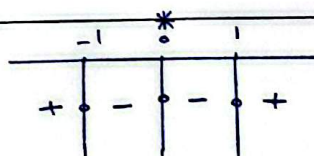
$x^3 + x - 2 \rightarrow (x+2)(x-1)$



ب)  $y = \frac{(x-1)(x-2)}{(x-1)(x-3)}$



الف)  $y = \frac{x^2(x-1)(x+1)}{x^2 + x + 2} \rightarrow \Delta < 0$



ب)  $\Delta = 9 - 14 < 0$

$\Delta = 4 - 12 < 0$

if  $x \in \mathbb{R} \rightarrow y > 0$

عبارت همواره مثبت است