

۷۲ = ۱۱۱ → چون توان فرد است پس $\rightarrow ۷۲ = ۱۱۱$

1 → تابع است

1 → تابع است

۲

بایع است

~~Handwritten signature~~

in $\sqrt{n}$ (ill)

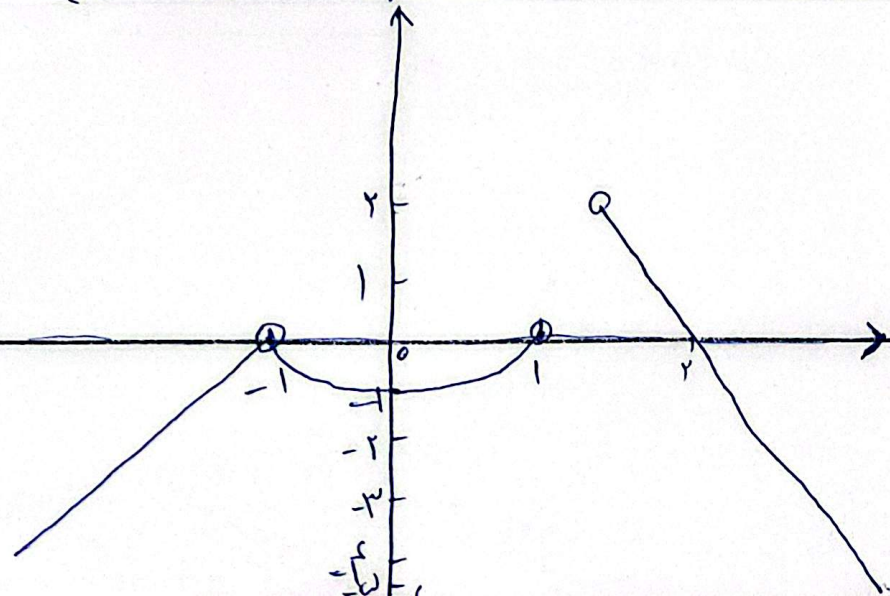
$$\frac{1}{5} = \frac{1}{1} \cdot \frac{1}{5}$$

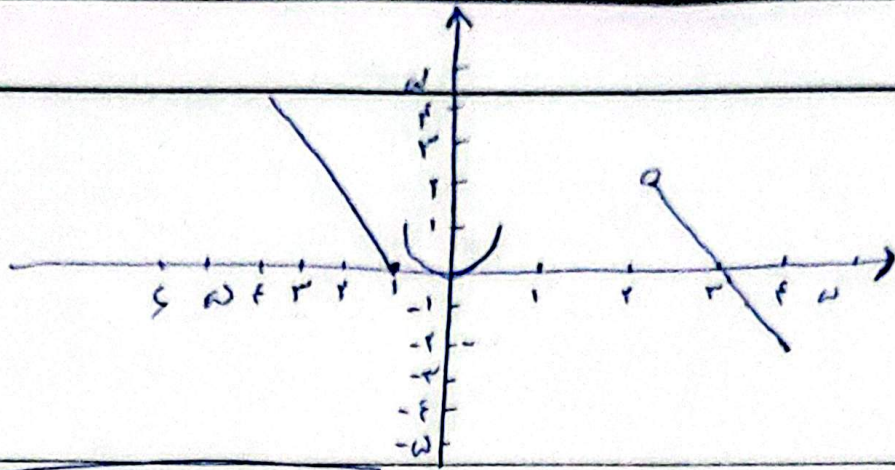
$$\tan \frac{\pi}{4} = \frac{\sin}{\cos} = \frac{\frac{\sqrt{2}}{2}}{\frac{1}{\sqrt{2}}} = 1$$

$$\tan \theta = \frac{\sin}{\cos} = \frac{1}{\frac{1}{\sqrt{2}}} = \sqrt{2}$$

(ج) $\frac{\pi}{e}$ و $\frac{\pi}{e}$

$$\frac{V \uparrow}{f \downarrow} \quad \frac{\pi}{f \downarrow}$$





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$$\begin{array}{ccccccc} & 2 & & 3 & & 4 & \\ & \downarrow & & \downarrow & & \downarrow & \\ - & \oplus & + & \oplus & - & \oplus & + \end{array}$$

الف) ریشه ها 2 و 3 و 4

7

$$\begin{array}{ccccccc} & 2 & & 3 & & 4 & \\ & \downarrow & & \downarrow & & \downarrow & \\ + & \oplus & - & \oplus & - & \oplus & + \end{array}$$

ب) ریشه ها 2 و 3 و 4

$$\begin{array}{ccccccc} & 2 & & 3 & & 4 & \\ & \downarrow & & \downarrow & & \downarrow & \\ - & \oplus & + & \oplus & - & \oplus & + \end{array}$$

الف) ریشه ها 2 و 3 و 4

8

$$\begin{array}{ccccccc} & 2 & & 3 & & 4 & \\ & \downarrow & & \downarrow & & \downarrow & \\ + & \oplus & - & \oplus & - & \oplus & + \end{array}$$

ب) ریشه ها 2 و 3 و 4

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

$$\begin{array}{ccccccc} & 1 & & 2 & & 3 & \\ & \downarrow & & \downarrow & & \downarrow & \\ + & \oplus & - & \oplus & - & \oplus & + \end{array}$$

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

ب) $x^2 - 4x + 3 \rightarrow (x-1)(x-3) \rightarrow x = 1, 3$

الف) $x^2 - x^2 = x^2(x^2 - 1) \rightarrow x = 0 \text{ و } \pm 1$

$$\begin{array}{ccccccc} & -1 & & 0 & & 1 & \\ & \downarrow & & \downarrow & & \downarrow & \\ + & \oplus & - & \oplus & - & \oplus & + \end{array}$$

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ب) $x^2 + 3x + 2 = (x+1)(x+2) \rightarrow x = -1 \text{ و } -2$

$$\begin{array}{ccccccc} & -2 & & -1 & & & \\ & \downarrow & & \downarrow & & & \\ + & \oplus & - & \oplus & + & & \end{array}$$