

$$1) y^3 = 2n-1$$

$$\Rightarrow y = \sqrt[3]{2n-1}$$

$$2) y_r = \sqrt[3]{2n_r-1} \Rightarrow y_1 = y_r \text{ تابع است}$$

$$1) y_r^3 = 2n_r-1$$

$$1) y_1^3 = 2n_1-1$$

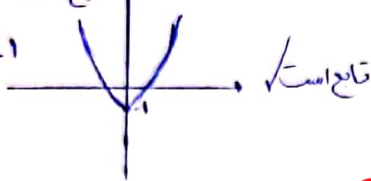
$$2) y_r^3 = 2n_r-1 \Rightarrow y_1^3 + y_r^3 = y_r^3 + y_r^3$$

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

$$y_1 = y_r \pm \sqrt{y_r^2 - 4} \quad \Delta < 0, \text{ و } \Delta = 0 \Rightarrow y_1 = y_r$$

$$(y_1 - y_r)(y_1^2 + y_1 y_r + y_r^2) + (y_1 - y_r) = 0 \Rightarrow (y_1 - y_r)(y_1^2 + y_1 y_r + y_r^2 + 1) = 0$$

$$1) y = n-1$$



$$1) y^3 + n^3 = 2n-1$$

$$\Rightarrow y^3 = 2n-1-n^3 \Rightarrow y = \sqrt[3]{2n-1-n^3}$$

$$y_1 = \sqrt[3]{2n_1-1-n^3} \Rightarrow y_1 = y_r \text{ تابع است}$$

$$1) |y| + n y = n+1 \geq 0 \quad |y| = 1$$

$$\Rightarrow y = \pm 1 \text{ تابع است}$$

$$1) \sqrt{y} + \sqrt{n} = r \Rightarrow \sqrt{y_1} + \sqrt{n_1} = r \Rightarrow y_1 = y_r \text{ تابع است}$$

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

$$1) \tan 45^\circ = \frac{\sin 45^\circ}{\cos 45^\circ} = \frac{\frac{1}{\sqrt{2}}}{\frac{1}{\sqrt{2}}} = 1$$

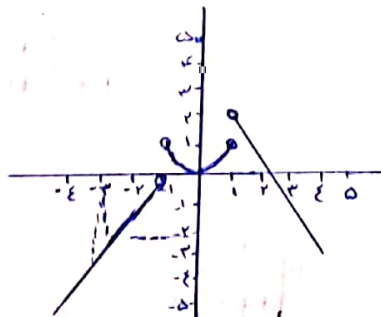
$$1) \cot \frac{\sqrt{\pi}}{4} = \frac{\cos \frac{\sqrt{\pi}}{4}}{\sin \frac{\sqrt{\pi}}{4}} = \frac{\frac{\sqrt{2}}{2}}{\frac{1}{\sqrt{2}}} = 1$$

$$1) \cot 18^\circ = \frac{\cos 18^\circ}{\sin 18^\circ} = \frac{1}{\sin 18^\circ}$$

$$1) \sin a = \frac{1}{r} \Rightarrow a = \frac{\pi}{4}, \frac{3\pi}{4}$$

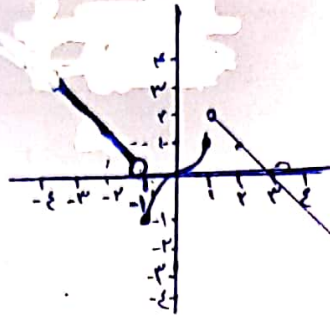
$$1) \cos a = \frac{\sqrt{2}}{r} \Rightarrow a = \frac{\pi}{4}, \frac{7\pi}{4}$$

$$f(n) = \begin{cases} -n+1 & n \geq 1 \\ n & -1 < n < 1 \\ n+1 & n < -1 \end{cases}$$



$$f(n) \begin{cases} -n+1 & n \geq 1 \\ n^2 & -1 < n < 1 \\ n+1 & n < -1 \end{cases}$$

Ⓟ ✓



6

$$11g = (n-r)(n-r')(n-\xi) \begin{cases} n=r \\ n=r' \\ n=\xi \end{cases}$$

$$\begin{array}{c|ccc} n & r & r' & \xi \\ \hline & - & + & - \end{array}$$

Ⓟ ✓

$$r1g = (n-r)(n-r')^r(n-\xi) \begin{cases} n=r \\ n=r' \\ n=r' \\ n=\xi \end{cases}$$

$$\begin{array}{c|cccc} n & r & r' & r' & \xi \\ \hline & + & - & - & + \end{array}$$

7

$$11g = \frac{(n-r)(n-\xi)}{n-r}$$

$$n=r, \xi, r'$$

$$\begin{array}{c|ccc} n & r & r' & r' \\ \hline & - & + & - \end{array}$$

Ⓟ ✓

$$r1g = \frac{(n-r)(n-\xi)}{(n-r)r}$$

$$n=r, \xi, r'$$

$$\begin{array}{c|cccc} n & r & r' & r' & \xi \\ \hline & + & - & - & + \end{array}$$

8

$$1) \frac{n^r - r n + r}{n-r} \Rightarrow \frac{n^r - r n + r}{n-r} \Rightarrow (n-1)(n^r + n r) = (n-1)(n-1)(n+r) \quad n=1, r, r'$$

Ⓟ ✓

$$\begin{array}{c|ccc} n & r & r' & r' \\ \hline & + & - & - \end{array}$$

$$\frac{n^r - r n + r}{n-r} \Rightarrow \frac{n^r - r n + r}{n-r} \Rightarrow \frac{n^r - r n + r}{n-r} \Rightarrow \frac{n^r - r n + r}{n-r}$$

$$\frac{n^r - r n + r}{n-r} \Rightarrow \frac{n^r - r n + r}{n-r} \Rightarrow \frac{n^r - r n + r}{n-r} \Rightarrow \frac{n^r - r n + r}{n-r}$$

9

$$1) \frac{n^r - r n + r}{n-r} \Rightarrow (n-1)(n-r) \Rightarrow n=1, r'$$

$$\begin{array}{c|ccc} n & r & r' & r' \\ \hline & + & - & - \end{array}$$

Ⓟ ✓

$$11g = \frac{n^r - r n + r}{n-r} \Rightarrow \frac{n^r - r n + r}{n-r} \Rightarrow \frac{n^r - r n + r}{n-r} \Rightarrow \frac{n^r - r n + r}{n-r}$$

$$\begin{array}{c|ccc} n & r & r' & r' \\ \hline & + & - & - \end{array}$$

10

$$r1g = \frac{n^r - r n + r}{n-r} \Rightarrow \frac{n^r - r n + r}{n-r} \Rightarrow \frac{n^r - r n + r}{n-r} \Rightarrow \frac{n^r - r n + r}{n-r}$$

Ⓟ ✓