

نام و نام خانوادگی پاسنامه شماره کلاس ریاضیات

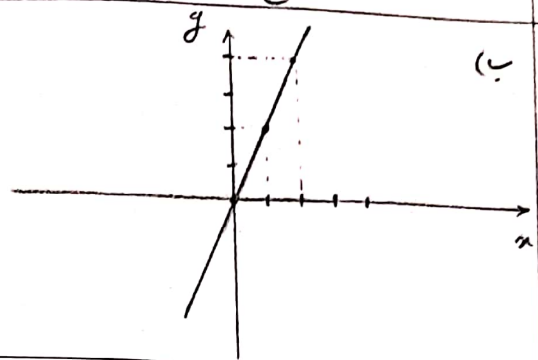
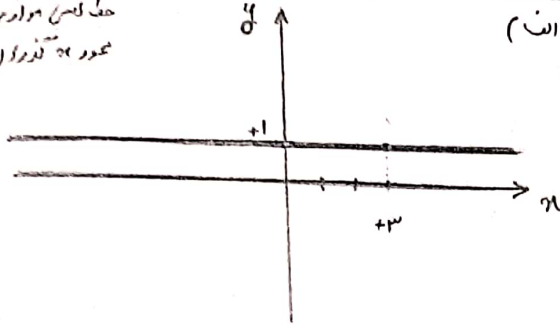
تابعیت $y_1 = y_2 \Rightarrow y_1' = y_2' \Rightarrow y_1'' = y_2''$ if $x_1 = x_2 \Rightarrow y_1 = y_2$

تابعیت $|y| + x^2 = x + 3 \Rightarrow x=0 \Rightarrow |y| + 0 = 3 \Rightarrow |y| = 3 \Rightarrow y = \pm 3$

تابعیت $\sqrt{x-4} = 0 \Rightarrow x=4$ و $|y-2| = 0 \Rightarrow y=2$

د) $x = \frac{\sqrt{2}}{2} \Rightarrow y = 1$ $\cos y = \frac{\sqrt{2}}{2} \Rightarrow y = 45^\circ$ و 135°

محل کتبی برابر با
عدد و تغییر از آن



$y = x$
 $y = ax + b$
 $\downarrow \quad \downarrow$
 $1 \quad 0$

$ax + b = 1 + 0 = 1$

(الف)

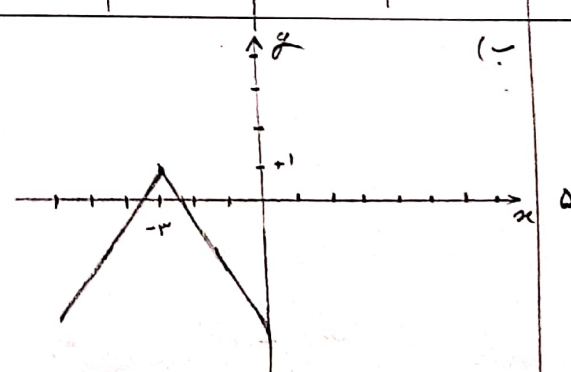
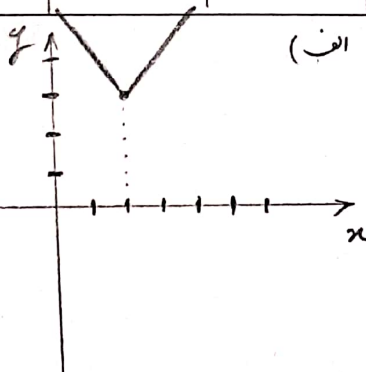
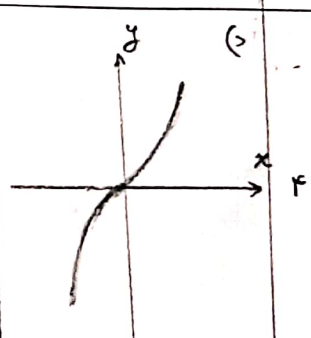
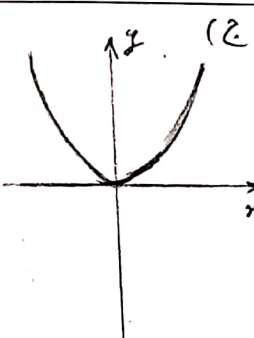
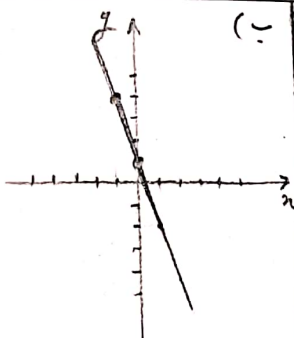
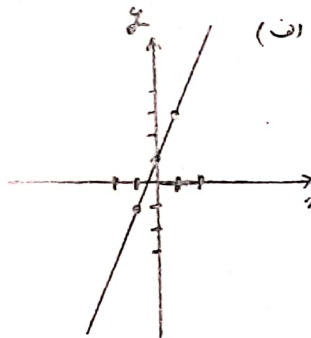
$y = x^2 + ax + b$

$\begin{vmatrix} 1 & 2 \\ 1 & 1 \end{vmatrix} \sim \frac{-a}{2} \Rightarrow a = -2$

$y = x^2 - 2x + b$

$4 - 2 + b = b - 2 = 1 \Rightarrow b = 3$

$a + b = -2 + 3 = 1$



ا) $n^r = 0 \neq n$ $n^r \neq 0$ $n \neq 0 \rightarrow D_f = \mathbb{R} - \{0\}$

ب) $n^r = 1 \neq n$ $n \neq 1 \rightarrow \Delta = b^r - f a c = 9 - f(1 \times 1) = 9 - 9 = 0 \rightarrow D_f = \mathbb{R}$

ج) $n^r = n + f \neq n$ $\rightarrow \Delta = b^r - f a c = 1 - f(1 \times 1) = 1 - 1 = 0 \rightarrow D_f = \mathbb{R}$

د) $n^r = 0 \neq n$ $n \neq 0 \rightarrow D_f = \mathbb{R} - \{0, 1, -1\}$

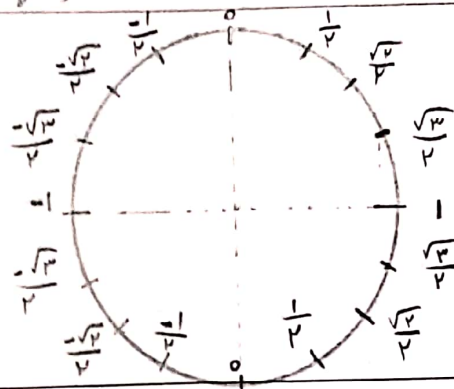
ا) $0 < n < 1$ $n > 1$ $\rightarrow \frac{n}{n} \rightarrow 1 \leq n \leq 9 \Rightarrow D_f = [1, 9]$

ب) $n^r = -1 \neq n$ $\rightarrow D_f = \mathbb{R}$

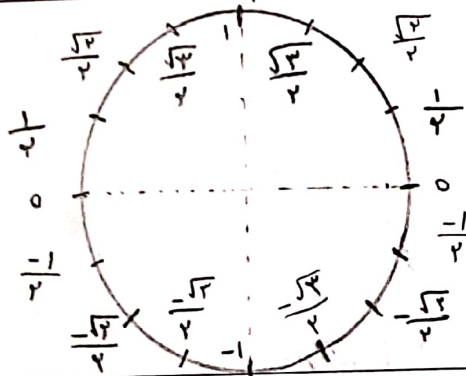
ج) $n - r \geq 0 \rightarrow n \geq r$ $n - r \neq 0 \Rightarrow n \neq r \Rightarrow D_f = [r, +\infty) - \{r\}$

د) $|n| < n^r$ $\rightarrow \left\{ \begin{matrix} r \\ 0 \\ -r \end{matrix} \right\} \rightarrow D_f = \mathbb{R} - \{0\}$

$\cos x = \frac{1}{r}$



$\sin x = \frac{1}{r}$



$\cos \frac{r\pi}{r} = \frac{1}{r} \rightarrow \frac{1}{r} = \sin \theta$

$\rightarrow \theta = \begin{cases} rk\pi + \frac{\pi}{4} \\ rk\pi + \frac{3\pi}{4} \end{cases}$

$\{rk\pi + \frac{\pi}{4}, rk\pi + \frac{3\pi}{4} \mid k \in \mathbb{Z}\}$

$\cos \frac{r\pi}{r} = \frac{1}{r} \rightarrow \frac{1}{r} = \sin \theta$

$\rightarrow \theta = \begin{cases} rk\pi + \frac{\pi}{r} \\ rk\pi + \frac{5\pi}{r} \end{cases}$

$\{rk\pi + \frac{\pi}{r}, rk\pi + \frac{5\pi}{r} \mid k \in \mathbb{Z}\}$