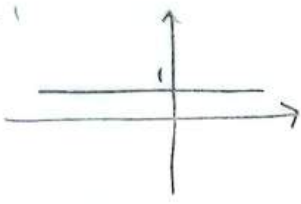
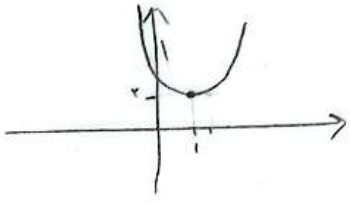
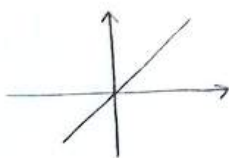
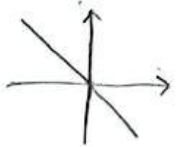
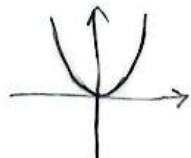
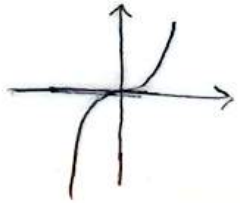
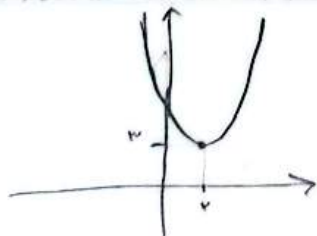
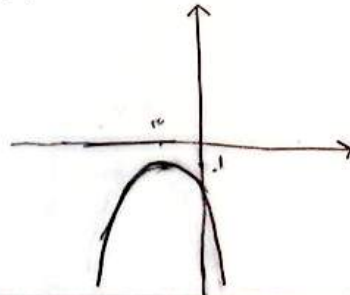
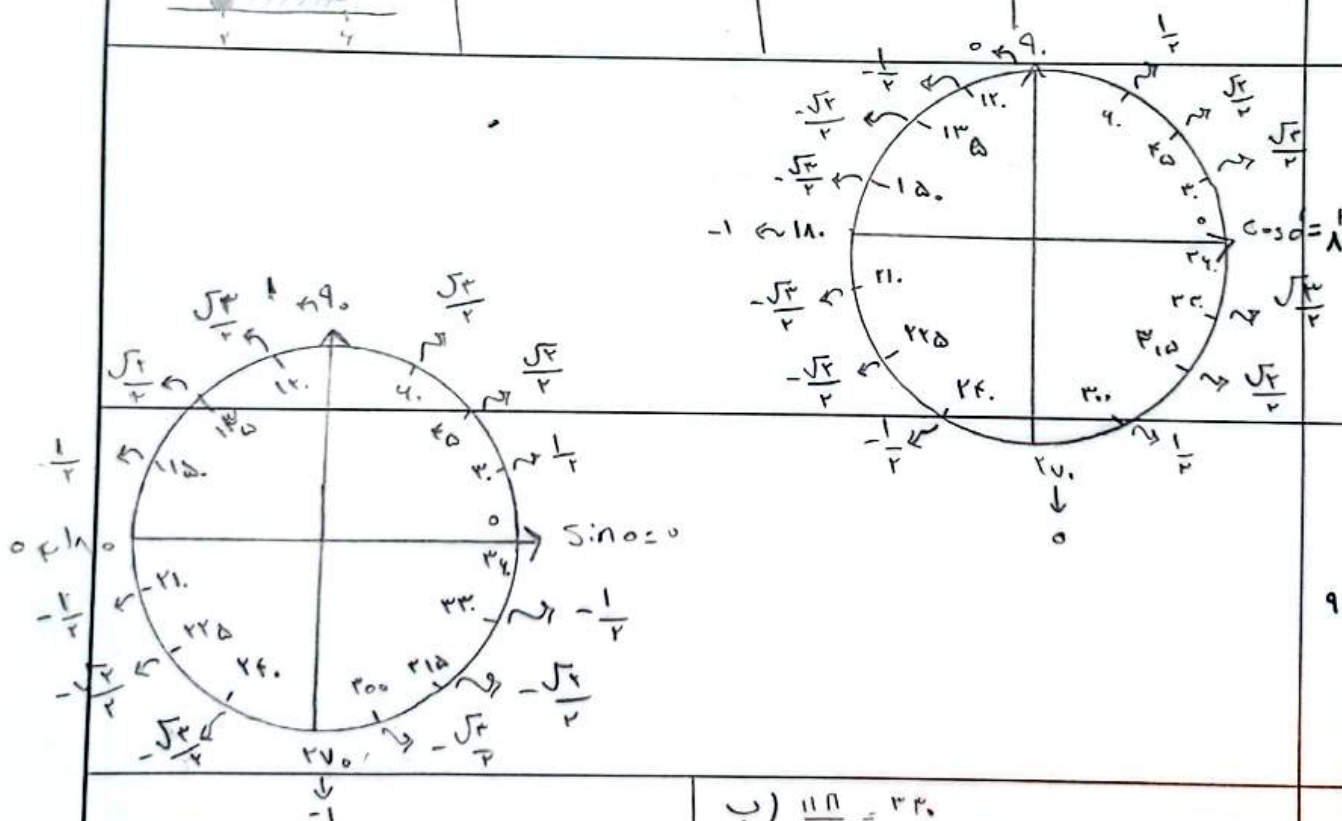


الف) $y^3 - x = 2x^2$ تابع است $x=1$ $y^3 - 1 = 2 \Rightarrow y^3 = 3$ $y = \sqrt[3]{3}$	ب) $y+x + x^2 = x+3$ تابع نیست $y_2 = y^2$ $x=0$ $y+0 = 0+3$ $y=3$ $-y+0 = 0+3$ $y=-3$	ج) $\sqrt{x-4} + y-2 = 0$ تابع است $\sqrt{x-4} = 0$ $x=4$ $y-2 = 0$ $y=2$ $(4,2) \quad f(4) = 2$	د) $x = \cos y$ تابع است $x = f(y) = \cos y$	۱
الف) $y = 1x$ $y = 1$ 	ب) 	۲		
الف) $y = ax^2 + b \Rightarrow y = x$	ب)	۳		
الف) $y = 2x + 1$ 	ب) $y = -3x + 1$ 	ج) $y = x^2$ 	د) $y = x^3$ 	۴
الف) 	ب) 	۵		

$\text{حل) } n^r - r n > 0$ $n(n-r) > 0$ $n > r$ $r > 0$ $D_p = (0, +\infty)$	$\text{ب) } \frac{n+r}{n^r - r n + 1} > 0$ $n^r - r n + 1 > 0$	$\text{ج) } \frac{n+r}{n^r + n + r} > 0$ $n^r + n + r > 0$ $n(n+1+r) > 0$	$\text{د) } \frac{n+r}{n^r - r n^r}$ $r, -r, 15 \geq \sum_{i=1}^n$ $+\frac{r}{2} - \frac{r}{2} + \frac{r}{2} -$ $D_p = (-\infty, -r) \cup (r, 15]$	8
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$\text{حل) } 4 - n > 0 \Rightarrow$ $n < 4$ $n, r > 0 \Rightarrow$ $n > r$ $D_p = [r, 4]$ 	$\text{ب) } n^r + 1 > 0$ $n^r > -1$ $n > -1$ $D_p = (-1, +\infty)$	$\text{ج) } n - r > 0$ $n > r$ $D_p = (r, +\infty)$	$\text{د) } n + n^r > 0$ $ n + n^r \neq 0$ $ n + n^r > 0$ $ n > n^r$ $D_p = \{\emptyset\}$	9
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$\text{حل) } \frac{r n}{r} = 110$ $\cos 110 = -\frac{1}{r} \Rightarrow \frac{1}{r}$ $\sin = \frac{\Delta n}{r}, \frac{n}{r} \text{ و } \frac{r}{n}$	$\text{ب) } \frac{11n}{4} = 110$ $\cos 110 = \frac{\sqrt{r}}{r} \Rightarrow -\frac{\sqrt{r}}{r}$ $\sin = \frac{\Delta n}{r}, \frac{r n}{r} \text{ و } \frac{r}{n}$	10
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