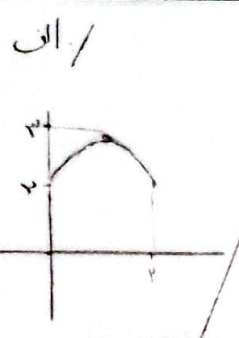
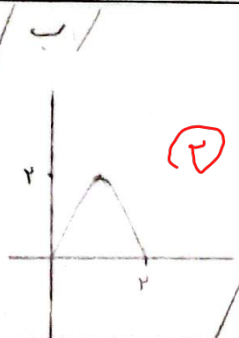
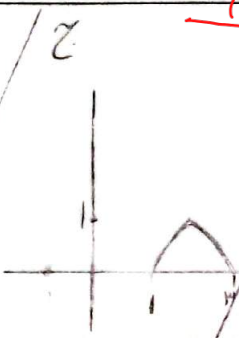
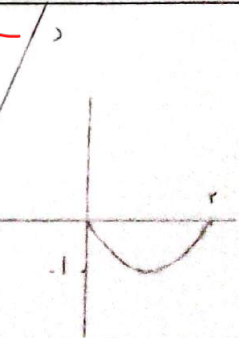
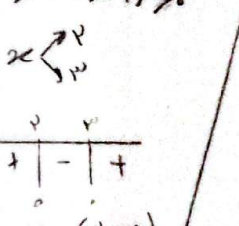
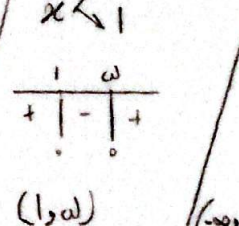
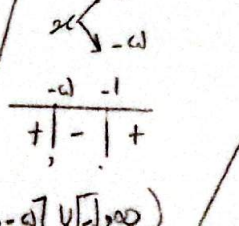
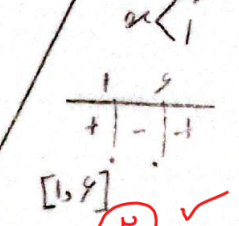
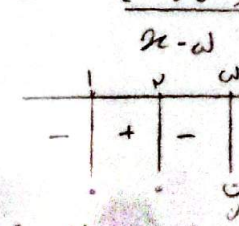
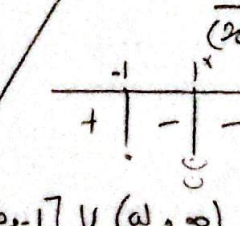
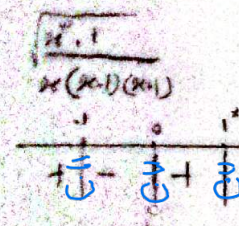
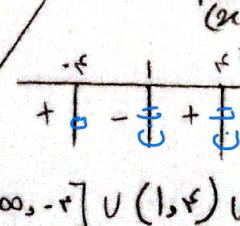


نام و نام خانوادگی زیر آبیان پاسخنامه تشریحی تکلیف شماره (۱۸) کلاس A

۱	الف /  ب /  ج /  د / 
۲	الف $x^2 - 5x + 4 > 0$  ب $x^2 - 6x + 5 \leq 0$  ج $x^2 + 7x + 12 \geq 0$  د $x^2 - 7x + 6 \leq 0$ 
۳	الف $\frac{(x-2)(x-1)}{x-3} < 0$  ب $\frac{(x-1)(x+1)}{(x-2)(x-1)} \geq 0$ 
۴	الف $\frac{x^2 + 1}{x(x-1)(x+1)}$  ب $\frac{(x-4)(x+5)}{(x-1)(x-5)}$ 
۵	الف $x - 2 \geq 0$ $x \leq 2$ ب $x - 2 \geq 0$ $x \geq 2$ ج $x - \sqrt{2} \geq 0$ $\sqrt{2} \leq x$ د $x - \sqrt{2} \leq 0$ $\sqrt{2} \geq x$ هـ $x - 2 \leq 0$ $x \leq 2$ و $x - 2 \leq 0$ $x \geq 2$

الف $\sqrt{r(r-x^2)} \geq 0$ $\sqrt{r(\sqrt{r}-x)}(\sqrt{r}+x) \geq 0$ $\begin{array}{c} -\sqrt{r} \quad \sqrt{r} \\ - \quad + \quad + \quad - \end{array}$ $D_f = [-\sqrt{r}, \sqrt{r}]$	ب $\sqrt{r(x -r^2)} \geq 0$ $\begin{array}{c} -r^2 \quad r^2 \\ + \quad - \quad + \end{array}$ $D_f = (-\infty, -r^2] \cup [r^2, \infty)$ 1.17.5 ✓	6
الف $D_f = R - [-r^2]$	ب رادیكال باید تعریف شود. $\sqrt{r-x^2} \neq 0 \rightarrow x > 0$ $\sqrt{r-x^2} = r^2$ $x = 9$ $[0, +\infty)$ $D_f = R - [9]$ 1.1.6	7
الف $r \cos x - 1 \neq 0$ $\cos x \neq \frac{1}{r}$ $R - \left[2k\pi + \frac{\pi}{r}, 2k\pi + \frac{5\pi}{r} \right]$ ✓	ب) $\sin x \neq -\frac{1}{r}$ $R - \left[2k\pi + \frac{3\pi}{2}, 2k\pi + \frac{7\pi}{2} \right]$ ج) $\tan x = \frac{\sin x}{\cos x}$ $\cos \neq 0$ $\frac{\cos x}{\sin x} - 1 \neq 0$ $R - \left[\frac{k\pi}{r}, k\pi + \frac{\pi}{r} \right]$ ✓	8
$r x-r - \frac{1}{r} > 0$ $r x-r > \frac{1}{r}$ $ x-r > \frac{1}{r^2}$ $x > \frac{9}{r^2}$	$x < \frac{1}{r^2}$ $D_f \rightarrow \begin{cases} x < \frac{1}{r^2} \\ x > \frac{9}{r^2} \end{cases}$ ✓	9
الف $4 - r x \geq 0$ $r x \leq 4$ $ x \leq \frac{4}{r}$ $D_f = -\frac{4}{r} \leq x \leq \frac{4}{r}$	ب) $D_f = R - [0]$ ✓	10