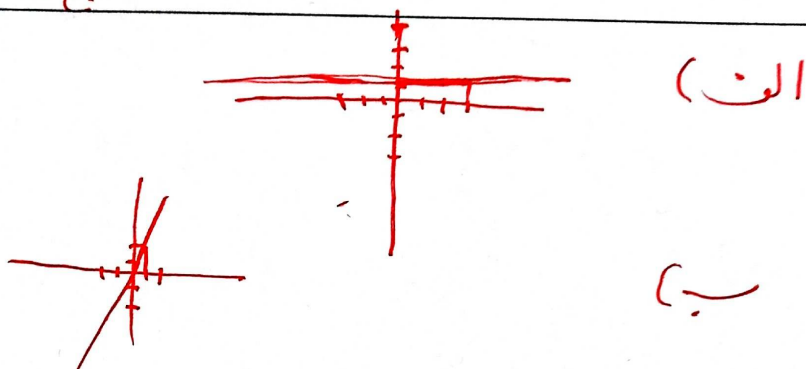


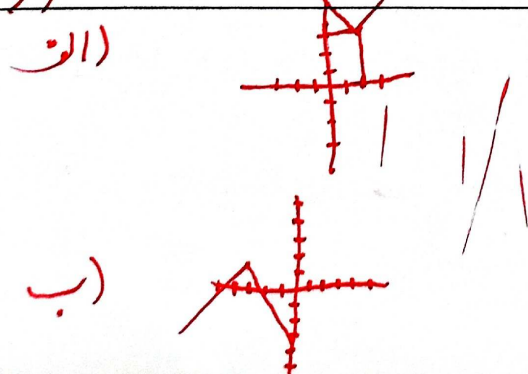
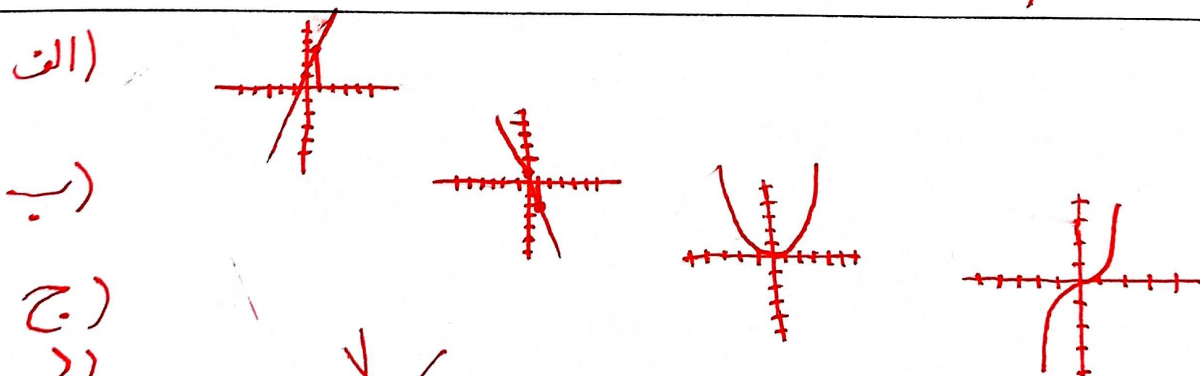
نام و نام خانوادگی دانش جویی پاسخنامه تشریحی تکلیف شماره کلاس چهارشنبه ۱۳۹۵/۵/۶

الف) $y^3 - 1 = 2$ $y^3 = 3$ $y^3 - 2 = 1$ $y^3 = 1$ $y^3 - 3 = 1$ $y^3 = 2$ $y = \sqrt[3]{2}$
 ب) تابع هست $y = 3$ $|y| = 3$ $|y| + 1 = 4$ تابع نیست $y = -3$
 ج) $\sqrt{1-4} + |y-2| = 0$ $2 + |y-2| = 0$ $|y-2| = -2$ $-y-2 = -2$ $y-2 = -2$
 $y = 0$ $y = 0$ $y = 2$ تابع هست
 د) $y = 0, 2\pi$ تابع نیست



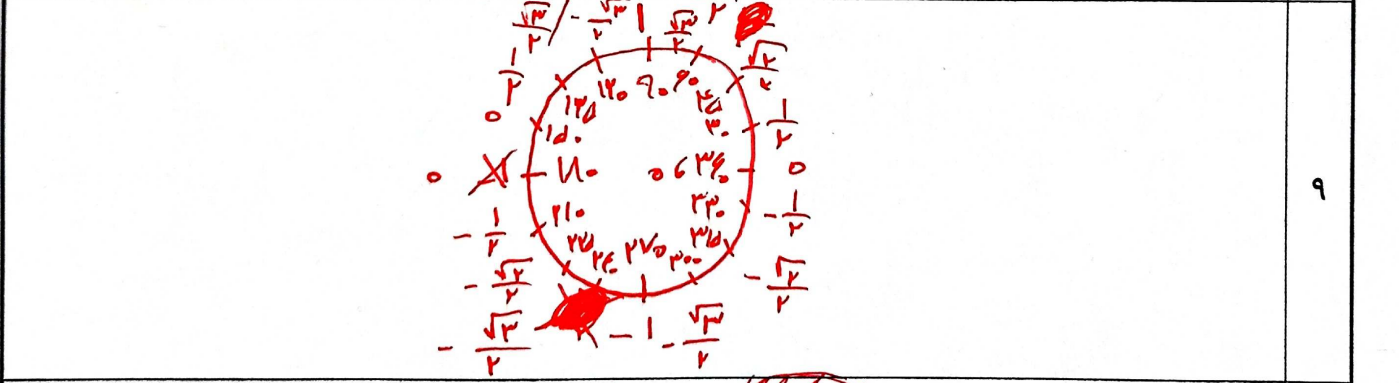
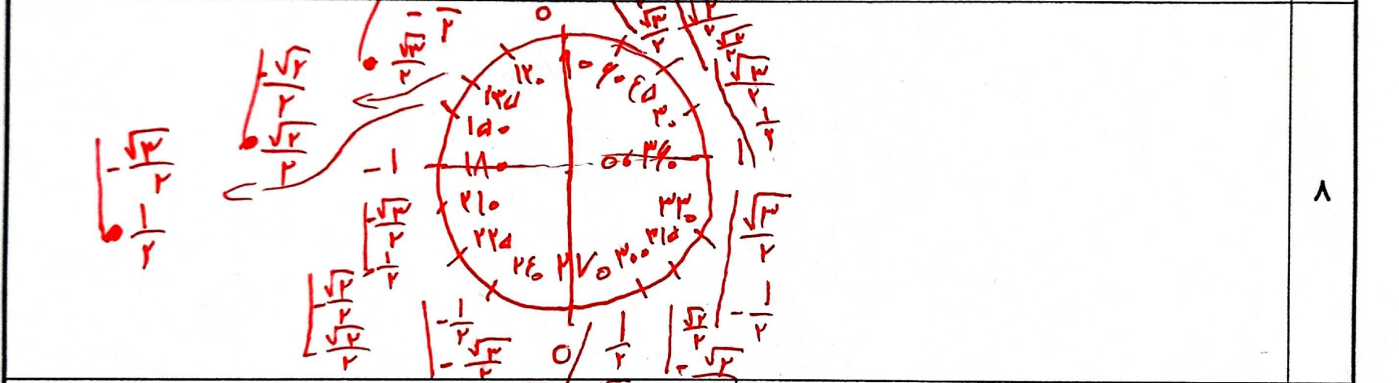
الف) $a+2b = 1$ $y = ax + b$ $y = x \rightarrow b = 0$ $a = 1$

ب) $a = 2$ $y = 2x + b$ $x = 1, y = 4$ $2(1) + b = 4$ $b = 2$ $y = 2x + 2$



$x^2 - 4x \neq 0 \rightarrow x(x-4) \neq 0$ (الف) $D = R - \{0, 4\}$
 $x^2 - 4x + 1 \neq 0 \rightarrow \frac{-b \pm \sqrt{\Delta}}{2a} \rightarrow \frac{4 \pm \sqrt{16-4}}{2} = \frac{4 \pm \sqrt{12}}{2} = 2 \pm \sqrt{3}$ (ب) دلتا منفی
 $x^2 + x + 1 \neq 0 \rightarrow \frac{-b \pm \sqrt{\Delta}}{2a} \rightarrow \frac{-1 \pm \sqrt{1-4}}{2} = \frac{-1 \pm \sqrt{-3}}{2}$ (ج) دلتا منفی
 $x^2 - 4x \neq 0 \rightarrow x(x-4) \neq 0 \rightarrow x \neq 0, 4$ (د) $D = R - \{0, 4\}$
 $x^2 - 4x + 1 \neq 0 \rightarrow x^2 - 4x + 1 = 0 \rightarrow x = 2 \pm \sqrt{3}$ (هـ) $D = R - \{2 - \sqrt{3}, 2 + \sqrt{3}\}$

الف) $x - 2 > 0 \quad x - 2 \geq 0 \quad x > 2 \quad x \geq 2$
 ب) $x^2 + 1 \neq 0 \quad x^2 \neq -1 \quad D = R$
 ج) $\frac{x-2}{x-4} \neq 0 \quad x \neq 2 \quad [2, 4) \cup (4, +\infty)$
 د) $|x| + x^2 \neq 0 \quad D = R - \{0\}$



الف) $\frac{r\pi}{\pi} = 120^\circ = -\frac{1}{4} \rightarrow 120^\circ \text{ و } 240^\circ$
 ب) $\frac{11\pi}{8} = 157.5^\circ = \frac{\sqrt{2}}{2} \rightarrow 157.5^\circ \text{ و } 202.5^\circ$
 ج) $\frac{r\pi}{\pi} = 120^\circ = -\frac{1}{4} \rightarrow 120^\circ \text{ و } 240^\circ$
 د) $\frac{r\pi}{\pi} = 120^\circ = -\frac{1}{4} \rightarrow 120^\circ \text{ و } 240^\circ$