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نام و نام خانوادگی شماره کلاس پاسخنامه تشریحی تکلیف شماره ۳	
الف) $\frac{x+c}{x^2+2x+1} = \frac{x+c}{(x+1)^2}$ $\Rightarrow D_f = R - \{1, -1\}$ ✓ ب) $\frac{x+c}{x^2+9x+14} = \frac{x+c}{(x+2)(x+7)}$ $\Rightarrow D_f = R - \{-\frac{1}{2}, -7\}$ ✓	۱
الف) $\frac{x+c}{x^2-4x+4} = \frac{x+c}{(x-2)^2}$ $\Rightarrow D_f = R - \{2\}$ ✓ ب) $\frac{x+c}{x^2-2x+2} = \frac{x+c}{(x-1)(x^2-x+1)}$ $\Rightarrow D_f = (1, +\infty) \cup (-\infty, 1-c]$ ✓	۲
if $x \neq 1 \Rightarrow x^2-2x+2 \neq 0$ ✓ if $x \neq 1 \Rightarrow x^2-2x+2 \neq 0$ ✓ $D_f = R - \{2, 0, 0, -c\}$ ✓	۳
الف) $2x+1 - x+c \neq 0$ $\Rightarrow x \neq -\frac{1}{2}$ ✓ ب) $2x+1 > x+c$ $\Rightarrow D_f = [2, +\infty) \cup (-\infty, -\frac{c}{2}]$ ✓	۴
الف) $1-x \Rightarrow x > 0$ و $1-1/2 \Rightarrow x > 0$ $\Rightarrow D_f = (0, 1)$ ✓ ب) $1-x \Rightarrow x > 0$ و $1-1/2 \Rightarrow x > 0$ $\Rightarrow D_f = (\frac{1}{2}, \infty)$ ✓	۵

$$I \Rightarrow x-1 > 0 \Rightarrow x > 1 \checkmark$$

$$II \Rightarrow 1.20^{(x-1)} > 0$$

دفعه: $\begin{cases} x-1 > 1 \\ x > 2 \end{cases}$

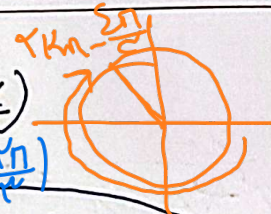
$$D_2 \left(\frac{1}{x+1} \right)$$

$$III \Rightarrow \log_{\frac{1}{x-1}} > 0 \Rightarrow 1 \geq 1.20^{(x-1)} \Rightarrow 0 \leq x-1$$

الف) $\cos x > 1 \Rightarrow \cos x > 1 \Rightarrow \cos x > 1 \Rightarrow \cos x > 1$

$\Rightarrow \cos x > 1 \Rightarrow \cos x > 1 \Rightarrow \cos x > 1$

$\Rightarrow \cos x > 1 \Rightarrow \cos x > 1 \Rightarrow \cos x > 1$



$$\frac{x-1}{x+1} > 0 \Rightarrow x > 1 \vee x < -1$$

$\log \frac{x-1}{x+1} > 0 \Rightarrow \frac{x-1}{x+1} > 1 \Rightarrow \frac{x-1}{x+1} > 1 \Rightarrow \frac{x-1}{x+1} > 1$

$\frac{x-1}{x+1} > 1 \Rightarrow \frac{x-1}{x+1} > 1 \Rightarrow \frac{x-1}{x+1} > 1$

$(x+1)x^2 + a(x+b) > 0$

if $x < 0 \Rightarrow x+1 < 1 \Rightarrow x+1 < 1 \Rightarrow x+1 < 1$

if $x > 0 \Rightarrow x+1 > 1 \Rightarrow x+1 > 1 \Rightarrow x+1 > 1$

if $x < 2 \Rightarrow x+1 < 3 \Rightarrow x+1 < 3 \Rightarrow x+1 < 3$

if $x > 2 \Rightarrow x+1 > 3 \Rightarrow x+1 > 3 \Rightarrow x+1 > 3$

$\Rightarrow x > 2 \Rightarrow x+1 > 3 \Rightarrow x+1 > 3 \Rightarrow x+1 > 3$

زیر ادیفال معادله: $a > 0$
 $\Delta \leq 0$

$$x^2 + x + 1 - m^2 \Rightarrow x^2 + x + 1 - m^2 \Rightarrow x^2 + x + 1 - m^2$$

$$x - x(x-m^2) \leq 0$$

$$1 - (1) = 0$$

$$x - 1 + x m^2 \leq 0$$

$$x m^2 - x \leq 0 \Rightarrow x(m^2 - 1) \leq 0$$

$$x(m^2 - 1) \leq 0 \Rightarrow x(m^2 - 1) \leq 0 \Rightarrow x(m^2 - 1) \leq 0$$

$$x - x^2 > 0 \Rightarrow x(1-x) > 0 \Rightarrow x < 1 \vee x > 1$$

$$\frac{-1}{2} < x < \frac{1}{2}$$

$$[x] + [-x] + 1 \neq 0 \Rightarrow [x] + [-x] \neq -1 \Rightarrow x \neq 0$$

تساوی از این عدد صحیح کبری نیست

$$[-1, 1] \rightarrow \text{عدد}$$