

نام و نام خانوادگی فاطمه شریانی پاسخنامه تشریحی تکلیف شماره ۶ کلاس (هم) (درج) ...

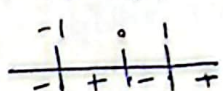
الف) $m^2 - 4m \rightarrow m(m-4)$ $m^2 - m \rightarrow (m+1)(m-1)(m)$ $-1 \quad 0 \quad 1 \quad 4$ $- \quad + \quad + \quad - \quad +$ $D_f = (-1, 0) \cup (0, 1) \cup [4, \infty)$	ب) $m^2 - m^2 \rightarrow m^2(m^2 - 1) \rightarrow m^2(m-1)(m+1)$ $m^2 - m \rightarrow m(m+1)(m-1)$ $-1 \quad 0 \quad 1$ $+ \quad + \quad +$ $D_f = (-\infty, -1) \cup (-1, 0) \cup (0, 1) \cup (1, \infty)$	۱
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... $m + m > 0$ $m < 0 \Rightarrow m - m > 0 \Rightarrow \alpha$ $m > 0 \Rightarrow m > 0$ $R = \{0\}$ $D_f = m > 0$	ب) $m m > 0$ $m < 0 \Rightarrow -m^2 > 0 \Rightarrow$ غلط $m > 0 \Rightarrow m^2 > 0$ $R = \{0\}$ $D_f = m > 0$	۲
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الف) $x - [x] \geq 0$ $x \geq [x]$ $D_f = (-\infty, 1)$	ب) $x - [x] > 0$ $x > [x]$ $D_f = (-\infty, 1)$	۳
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الف) $[m + \frac{1}{p} - 1] + [m + \frac{1}{p}] \geq 0$ $x [m + \frac{1}{p}] \geq 1$ $[m + \frac{1}{p}] \geq \frac{1}{p}$ $m + \frac{1}{p} \geq 1 \rightarrow m \geq \frac{1}{p}$	$[m - \frac{1}{p}] + [-(m - \frac{1}{p})] \geq 0$ if $\{ \dots \} a \in \mathbb{Z} \Rightarrow [a] + [-a] = 0$ $a \notin \mathbb{Z} \Rightarrow [a] + [-a] = -1$ $m - \frac{1}{p} \in \mathbb{Z} \text{ و } m \in \mathbb{Z} + \frac{1}{p}$	۴
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الف) $\sin m - 1 \neq 0$ $\sin m \neq 1$... $D_f = \mathbb{R} - \{2k\pi + \frac{\pi}{2}\}$	ب) $\sqrt{2} \sin^2 m \neq 1$ $\sqrt{\sin^2 m} \neq \frac{1}{\sqrt{2}}$ $\sin m \neq \frac{1}{\sqrt{2}} \Rightarrow D_f = \mathbb{R}$	۵
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ا) $r \sin m - 1 \gg 0$ $r \sin m \gg 1$ $\sin m \gg \frac{1}{r} \rightarrow \left[r k \pi + \frac{\pi}{2}, r k \pi + \frac{3\pi}{2} \right]$  $\rightarrow D_f:$ 	$\cos m - 1 \gg 0$ $\cos m \gg 1$ $D_f: \{r k \pi\}$	6
ا) $-1 \leq m - r \leq 1$ $r \leq m \leq r$ $D_f = [-r, r] \cup [r, r]$	$-1 \leq m^r + r_{m+1} \leq 1$ $\rightarrow -1 \leq m^r + r_{m+1} \rightarrow 0 \leq m^r + r_{m+1} + r$ $\rightarrow 0 \leq (m+r)(m+1) \rightarrow m \leq -r, m \geq -1$ $m^r + r_{m+1} \leq 1 \rightarrow m(m+r) \leq 0 \rightarrow -r \leq m \leq 0$ $D_f = \cancel{[-r, -1]} \cup [-1, 0]$	
ا) $(m-r) > 0$ $m > r$ $r - \log_r(m-r) > 0$ $r \geq \log_r(m+r)$ $r \geq m-r \rightarrow m \geq r$ $D_f = r < m \leq 11$ $(r, 11]$	$m^r - m > 0$ $m(m+1)(m-1) > 0$  $D_f = (-1, 0) \cup (1, +\infty)$	8
ا) $r^m + 1 \neq 0$ $r^m \neq -1$ $D_f = \mathbb{R}$ ب) $r^m - r \neq 0$ $r^m \neq r$ $D_f = \mathbb{R} - \{\log_r r\}$	ب) $r^m - 1 \neq 0$ $r^m \neq 1$ $m \neq 0$ $D_f = \mathbb{R} - \{0\}$ ج) $r^m - r \neq 0$ $r^m \neq r \rightarrow D_f = \mathbb{R} - \{\log_r r\}$	9
ا) $r_{m+1} \in W$ $r_m \in W-1$ $D_f: \{m m \in \frac{W-1}{r}\}$	ب) $\frac{r_m - r}{r_m - 0} \in W$ $r_m - r \in r_m W - 0 W$ $r_m - r \in r_m W - 0 W$	10