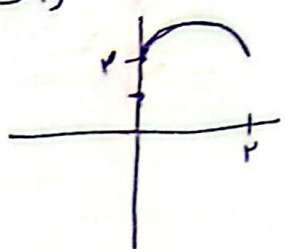
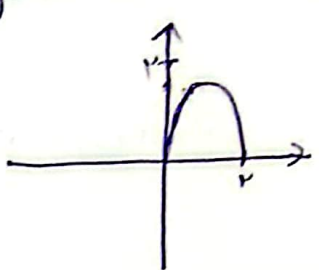
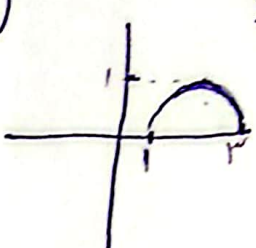
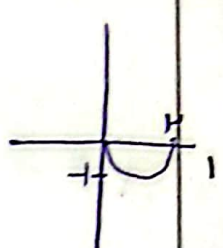
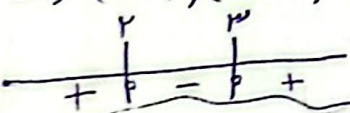
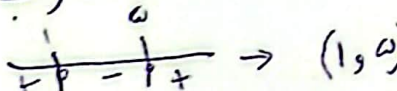
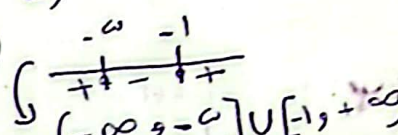
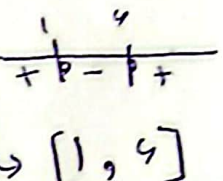
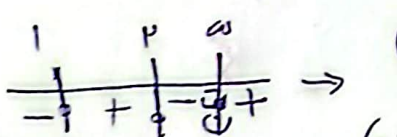
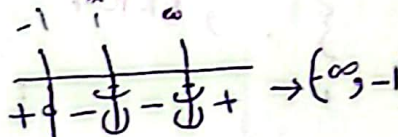
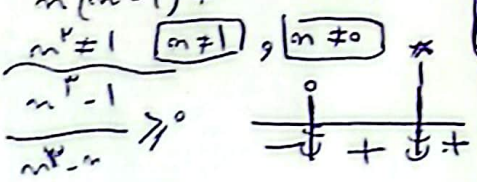
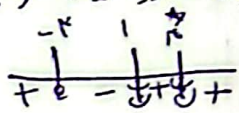


الف) 	ب) 	ج) 	د) 	
الف) $(m-2)(m-3) > 0$  $(-\infty, 2) \cup (3, +\infty)$	ب) $m = 1, \omega$  $\rightarrow (1, \omega)$	ج) $m = -1, \omega$  $(-\infty, -1] \cup [\omega, +\infty)$	د) $a+b+c=0$ $m = 1, 4$  $[1, 4]$	۱
الف) $m \neq \omega$ $m^2 - 3m + 2 = (m-1)(m-2)$  $\rightarrow (-\infty, 1) \cup (2, +\infty)$	ب) $m^2 - 1 = (m-1)(m+1)$  $\rightarrow (-\infty, -1) \cup (1, +\infty)$	۲	۳	
الف) $m^3 - m \neq 0$ $m(m^2 - 1) \neq 0$ $m^2 - 1 \neq 0$ $m \neq 1, -1$  $D_f = (0, 1) \cup (1, +\infty)$	ب) $m^2 - 4m + 4 = (m-2)^2$  $m \neq 1, 2$ $D_f = (-\infty, -1] \cup (1, 2) \cup (2, +\infty)$	۴	۵	
الف) $2 - m \geq 0 \rightarrow m \leq 2$ $4 - \sqrt{2-m} \geq 0$ $4 \geq \sqrt{2-m}$ $16 \geq 2-m$ $m \geq -14$ $\Rightarrow D_f = [-14, 2]$	ب) $m - 2 \geq 0 \rightarrow m \geq 2$ $4 - \sqrt{m-2} \geq 0 \rightarrow \sqrt{m-2} \leq 2$ $m - 2 \leq 4$ $m \leq 6$ $\Rightarrow D_f = [2, 6]$	۵		

الف) $r - r m \geq 0$ $r \geq r m$ $m \leq 1$ $m \leq \sqrt{r}$ $D_f = (-\infty, \sqrt{r}]$	ب) $m - 9 \geq 0$ $m - 9 \geq 0 \rightarrow m \geq 3$ $- m - 9 \geq 0 \rightarrow m \leq -3$ $D_f = (-\infty, -3] \cup [3, +\infty)$	6
الز) $m - r \neq 0$ $m \neq r$ $m \neq r, -r$ $D_f = R - \{r, -r\}$	$\sqrt{m} - r \neq 0$ $\sqrt{m} \neq r$ $m \neq 9$ $D_f = R - \{9\}$	7
ج) $\cos m + 1 \neq 0$ $r \cos m \neq -1$ $\cos m \neq -\frac{1}{r}$ $D_f = R - \left\{ r k \pi + \frac{r\pi}{r}, r k \pi + \frac{r\pi}{r} \right\}$	د) $\sin m \neq 0$ $r \sin m \neq 0$ $\sin m \neq \frac{1}{r}$ $D_f = R - \left\{ r k \pi + \frac{r\pi}{r}, r k \pi - \frac{r\pi}{r} \right\}$	8
هـ) $r m - r - \frac{1}{r} \geq 0$ $r m - r > \frac{1}{r}$ $m - r > \frac{1}{r}$ $\begin{cases} m - r > \frac{1}{r} \rightarrow m > \frac{1}{r} + r \\ m - r < -\frac{1}{r} \rightarrow m < r - \frac{1}{r} \end{cases}$	و) $m \neq 9 \rightarrow m \neq 0$ $\frac{ m }{ m } \geq 0$ $D_f = R - \{0\}$	9
الف) $r - r m \geq 0$ $r \geq r m$ $m \leq 1$ $-1 \leq m \leq 1$	ب) $m \neq 9 \rightarrow m \neq 0$ $\frac{ m }{ m } \geq 0$ $D_f = R - \{0\}$	10