

الف) $m^2 - m = 0 \Rightarrow m(m-1) = 0 \Rightarrow m = 0, 1$
 $D_f = \mathbb{R} - \left\{ \frac{1}{2}, \frac{3}{2}, 1 \right\}$

$m^2 - 2m + 1 = 0 \Rightarrow (m-1)^2 = 0 \Rightarrow m = 1$
 $D_f = \mathbb{R} - \left\{ \frac{1}{2}, \frac{3}{2}, 1 \right\}$

$m^2 - m - 2 = 0 \Rightarrow (m-2)(m+1) = 0 \Rightarrow m = 2, -1$
 $D_f = \mathbb{R} - \left\{ \frac{1}{2}, \frac{3}{2}, 1 \right\}$

الف) $m \geq 0$

$m \leq 2$
 $m \leq \frac{3}{2}$

$m - \sqrt{m} \neq 0$

$m \neq \sqrt{m}$

$m^2 \neq m$

$D_f = (-\infty, 0) \cup (1, 2)$

$m \geq 2$

$D_f = \left[\frac{3}{2}, +\infty \right) - \{1, 2\}$

$m \geq \frac{3}{2}$

$m - \sqrt{m} \neq 0$

$m \neq \sqrt{m}$

$m^2 \neq m$

$m - \sqrt{m} \neq 0$

$m(m-1) \neq 0$

الف) $m^2 - m + 3 \geq 0$

$\frac{1}{4} - \frac{9}{4} + 3 = 0$

$m^2 - 1 \neq 0$

$m^2 \neq 1$

$m \neq \pm 1$

$D_f = \mathbb{R} - \{\pm 1\}$

$m - 1 > 0$
 $m > 1$

$m > 1$

$(-\infty, 1) \cup (2, +\infty)$

$\Rightarrow D_f = [2, +\infty)$

الف) $m^2 - m > 0$

$m(m-1) > 0$

$D_f = (-\infty, 0) \cup (1, +\infty)$

$\frac{0}{4} - \frac{9}{4} + 3 = 0$

$\frac{m^2 - 4m + 4}{m-2} > 0$

$\frac{m^2 - 4m + 4}{m-2} > 0$

$(-\infty, 2) \cap (2, +\infty) \cap (2, +\infty) \Rightarrow D_f = (2, +\infty)$

الف) $m^2 - m > 0$

$m^2 < 4$

$-2 < m < 2$

$|m| > 2$

$|m| > 2$

$m > 2$
 $m < -2$

$|m| \neq 2$

$|m| \neq 2$

$m \neq \pm 2$

$\cap (0, 2) \cap (2, +\infty) \Rightarrow$

$D_f = (-2, -1) \cup (-1, 1) \cup (1, 2) \cup (2, +\infty)$

$\frac{m^2 - 4m + 4}{m-2} > 0$

$(-\infty, 2) \cup (2, +\infty)$

$m^2 - m > 0$

$m < \sqrt{m}$

$m > -\sqrt{m}$

$m > 0$

$m \neq 1$

$m^2 - m > 0$

$m < \sqrt{m}$

$m > -\sqrt{m}$

$m > 0$

$m \neq 1$

$m \neq 1$

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$m \neq 1$

$m \neq 1$

$m \neq 1$

$m \neq 1$

$m \neq 1$

$m \neq 1$

$m \neq 1$

$m \neq 1$

$m^2 - m = 0$

$m(m-1) = 0$

$m = 0, 1$

$m^2 + m = 0$

$m(m+1) = 0$

$m = 0, -1$

$m = 0, -1$

$m = 0, -1$

$m = 0, -1$

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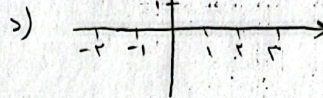
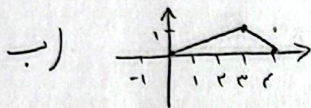
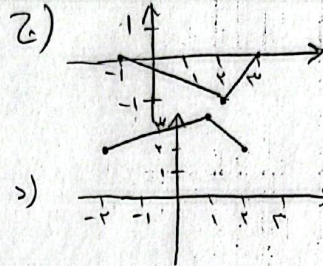
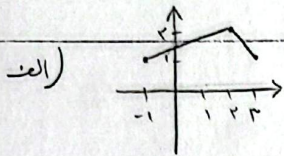
	-1	0	1
$m^2 - m$	+	+	+
$m(m-1)$	+	+	+
$m^2 + m$	+	+	+
$m(m+1)$	+	+	+
$p(m)$	+	+	+

$$\frac{n-f(n)}{f(n)} \geq 0, f(n) \neq 0$$

مخرج = -2, 2
صورت = -1, 3

$$\frac{-2}{-} \frac{-1}{+} \frac{2}{-} \frac{3}{+} \Rightarrow D_f = (-2, 1) \cup (2, 3)$$

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$$n^2 - 2n \geq 0 \quad \frac{-2}{-} \frac{0}{+} \frac{2}{-} \frac{+}{+}$$

$$\frac{n(n-2)}{0, 2, -2} \geq 0$$

$$[-2, 0] \cup [2, +\infty)$$

رشته ها نام برابر نیست پس توابع نام
مساوی نیستند

$$n > 0$$

$$n^2 - 2 > 0 \Rightarrow [2, +\infty)$$

$$n^2 \geq 2$$

$$n \geq \sqrt{2}$$

$$n \leq -\sqrt{2}$$

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$$D_f = \{n \mid n \geq 0\} \Rightarrow D = [0, +\infty)$$

رشته توابع نام برابر نیست

$$D_g = \{n \mid n - |n| \geq 0\}$$

$$n \geq |n|$$

$$n \geq 0 \Rightarrow D = [0, +\infty)$$

$$f(n) = g(n)$$

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رشته برابر نیستند $\Rightarrow \mathbb{R} \Rightarrow g(n) > n \Rightarrow \mathbb{R} \Rightarrow f(n) = [0, +\infty)$

رشته برابر نیستند $\Rightarrow \mathbb{R} - \{0\} \Rightarrow \frac{|n|}{n} \rightarrow n \neq 0 \Rightarrow \mathbb{R} - \{0\}$

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