

$$nf(n) \geq 0 \Rightarrow \left\{ \begin{array}{l} f(n) \geq 0 \text{ باشد} \\ f(n) \leq 0 \text{ باشد} \end{array} \right\} \Rightarrow [2, 0], [-5, 0]$$

$$D_f = [0, 0] \cup [2, 0]$$

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

$$f(n) = 0 \rightarrow n \in \{-1, 2, 0, 0\}$$

$$\frac{-n}{f(n)} \geq 0 \rightarrow n \in (-1, 0) \cup (2, 4)$$

$$n \in \{-2, -1, 2, 2\} \rightarrow \boxed{\text{شماره ۲ صحیح است}}$$

$$f(v) - 2f(v) = 2$$

$$f(v) = -2$$

$$f(m) = m^2 - 2m$$

$$f(-2) = 4 + 4$$

$$f(-2) = 10$$

$$f(0) = 0 - 0 = 0$$

$$f(2) = 0$$

$$f(1) = 0$$

$$v + 2 = 9$$

$$f(n-1) = a(n-1)^2 - b(n-1) + 2 = a(n^2 - 2n + 1) - bn + b + 2 = an^2 - 2an + a - bn + b + 2$$

$$f(n-1) - f(n) = an^2 - 2an + a - bn + b + 2 - (an^2 + bn - 2) = -2an + a + b$$

$$-2a = 2$$

$$a = -1 \Rightarrow b = 2$$

$$a - b - 2 = -1 - 2 - 2 = -5$$

$\left. \begin{aligned} f(1) &= 9 - 9 + 1 = 1 \Rightarrow r f(1) = 1 \\ f(-1) &= 1 + 1 + 1 = 3 \\ f(r) &= 9 - 9 + 1 = -1 \Rightarrow f(r) = 1 \end{aligned} \right\} \frac{r+0}{1} = \boxed{r}$	۶
$\left. \begin{aligned} f(1) &= 11 - 1 = 10 \Rightarrow r f(1) = 10 \\ f(-1) &= 1 \Rightarrow r f(-1) = 1 \\ f(r) &= 9 + 1 = 10 \end{aligned} \right\} \frac{10 - 1}{1} = \boxed{9}$	۷
$\frac{9 - 9}{9 - 9} = \frac{0}{0} = \boxed{0}$	۸
$\frac{(n+r)^r + 0}{(n+r)^r + 1} \quad \frac{14+0}{14+1} = \frac{14}{15} \rightarrow \text{قریب}$	۹
$\frac{(\sqrt{m})^r + 0}{(\sqrt{m})^r + 1} = \frac{1}{r} = \boxed{r}$	۱۰
$\begin{aligned} (\sqrt{m})^r + \frac{1}{(\sqrt{m})^r} &= m + \frac{1}{m} \\ (f(\sqrt{m}))^r &= \left(m + \frac{1}{m}\right)^r = m^r + \frac{1}{m^r} + r \\ m^r + \frac{1}{m^r} + r - m^r - \frac{1}{m^r} &= \boxed{r} \rightarrow \text{باز} \end{aligned}$	