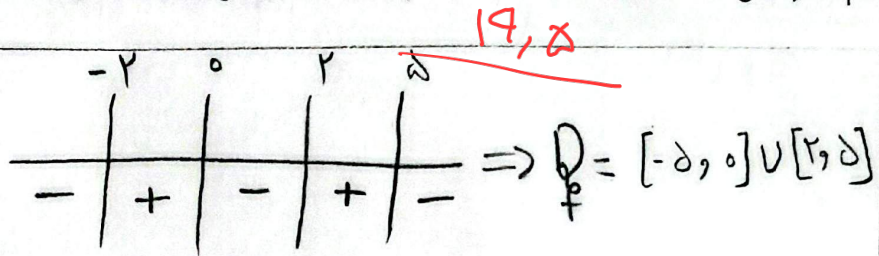


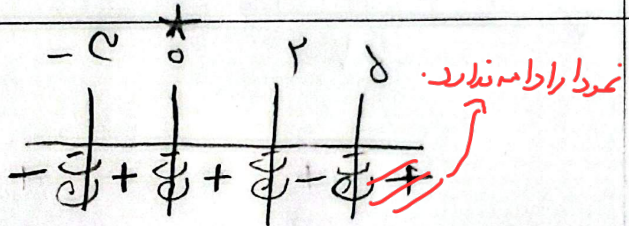
نام و نام خانوادگی ..... **محمد رضا** ..... پاسخنامه تشریحی تکلیف شماره ۷ کلاس ..... **پایان** .....

$$x \neq f(x) \geq 0$$



Q ✓

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



$$D_F = (-3, 0) \cup (0, 2) \cup (5, +\infty) \Rightarrow \text{مجموع } P \text{ عدد}$$

$$\varphi(r) - r\varphi(r) = 2 - 9 + 8 = 1$$

$$-f(y) = y \Rightarrow f(y) = -y$$

$$\varphi(-r) - r\varphi(r) = \Sigma + \eta + \xi$$

$$f(-2) + 4 = 10 \Rightarrow f(-2) = 10$$

$$f(\delta - c) + f(\omega) = f(y) + \cancel{f(\delta - c)} = V + \delta - c = 9$$

Q ✓

$$f(n-1) = a(n-1)^r - b(n-1) + r$$

$$f(n-1) - f(n) = a(n^r - r n + 1) - b n + b + r - (a n^r - b n + r)$$

$$f(n-1) - f(n) = -Yan + a + b = Yn + 7$$

$$-2a = 4 \Rightarrow a = -2 \Rightarrow b = 2 \Rightarrow a - b = \boxed{-4}$$

① ✓

$$\frac{r(1) + \omega}{2} = \textcircled{V}$$

$$f(n) = n^r - r n + 1 \rightarrow \begin{cases} f(r) = r^r - r(r) + 1 = 1 \\ f(-1) = (-1)^r - r(-1) + 1 = \omega \\ f(r) = r^r - r(r) + 1 = -1 \end{cases}$$

(P) ✓

$$\frac{r^9 - 1}{V} = \frac{r^1}{V}$$

$$f(n) = \begin{cases} r n + 1 & n \geq r \\ n^r & n < r \end{cases} \rightarrow \begin{cases} f(r) = r(r) + 1 = 1^r \\ f(-r) = (-r)^r = r \\ f(r) = r(r) + 1 = V \end{cases}$$

(P) ✓

$$\frac{f(1) - f(r)}{r - r} = \frac{4 - 4}{0} = \textcircled{0}$$

$$r \xrightarrow{f} 1 \xrightarrow{f} 4 \rightarrow f(f(r)) = 4$$

(P) ✓

$$r \xrightarrow{f} r \xrightarrow{f} 4 \rightarrow f(f(r)) = 4$$

$$1 \xrightarrow{f} 4 \rightarrow f(1) = 4$$

$$f(n) = \frac{(n+r)^r + \omega}{(n+r)^r + 1} \Rightarrow f(f(\sqrt{r}-r)) = f\left(\frac{\sqrt{r}^r + \omega}{\sqrt{r}^r + 1}\right)$$

$$f(r) = \frac{r^r + 1 + \omega}{r^r + 1 + \omega} = \frac{r^1}{1V}$$

(P) ✓

$$f(\sqrt{n}) = n + \frac{1}{n} \Rightarrow (f(\sqrt{n}))^r = n^r + \frac{1}{n^r} + r$$

$$(f(\sqrt{n}))^r - f(n) = n^r + \frac{1}{n^r} + r - n^r - \frac{1}{n^r} = \boxed{r}$$

(P) ✓