

$$\frac{(n+r)^r + \omega}{(n+r)^r + 1} \rightarrow \frac{(\sqrt{n} - r + r)^r + \omega}{(\sqrt{n} - r + r)^r + 1} = \frac{\Lambda}{\epsilon} = r$$

-9

ناقص 1 ✓

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

-10

2 ✓

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

$$f(f(\sqrt{n} - r)) = f(r) = \frac{(r+r)^r + \omega}{(r+r)^r + 1} = \frac{r1}{1v}$$

شماره تلفن = V

کلاس = جمع ما

م = هستی نارانی
17/7

$$y = n \cdot f(n) \geq 0$$

1,5

(1)

$$f(n), n \rightarrow \infty, 2, -\infty, \frac{-\infty}{+1}, \frac{2}{-1}, \frac{0}{+1}, \frac{0}{-1}, \frac{2}{-1}, \frac{0}{+1}, \frac{0}{-1}, \frac{2}{-1}, \frac{0}{+1}, \frac{0}{-1}$$

$$[0, \infty) \cap ([-\infty, -\infty] \cup [1, \infty)) = [1, \infty)$$

$n \geq 0$

$f(n) \geq 0$

$$\left\{ [-\infty, 0] \cup [1, \infty) \right\}$$

$$[-4, 0] \cap [-\infty, 1] = [-4, 0]$$

$n \leq 0$

$f(n) \leq 0$

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

$-n = 0 \rightarrow n = 0$

$$f(n) = -\infty, 0, 1$$

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

$$(-\infty, 0) \cup (0, 1)$$

(2) ✓

$$f(-r) = 1 \rightarrow f(-r) - \frac{r}{f(r)} = 1 \varepsilon$$

$$f(-r) - \frac{r}{f(r)} = \varepsilon + \eta + \varepsilon \quad f(r) = -r$$

(2) ✓

$$f(f(\infty)) + f(f(1)) = 9$$

$$\rightarrow f(f(\infty)) + f(f(1)) = f(r) + f(\infty) \quad f(r) = \frac{r}{f(r)} = \frac{\varepsilon}{V}$$

(1)

$$V + r = 9$$

$$f(n-1) = a(n-1)^r - b(n-1) + r \rightarrow f(n-1) - f(n) = an^r - ran + a - bn + -\infty$$

$$-ran + a + b = 4n + r \rightarrow a = -r, b = \infty$$

$$a - b = -r - \infty = -\infty$$

$$-ran + a + b$$

$$f(r) = 1$$

$$\frac{r + \infty}{1} = V$$

$$f(r) = -1$$

$$f(-1) = \infty$$

(2) ✓

$$\frac{r^2 f(r) - r f(-r)}{f(r)} = \frac{r^2 9 - \infty}{V} = \frac{r^2}{V}$$

(2) ✓

$$\frac{f(f(\varepsilon)) - f(f(r))}{f(1) - r} = \frac{9 - 9}{4 - \varepsilon} = 0$$

(2) ✓