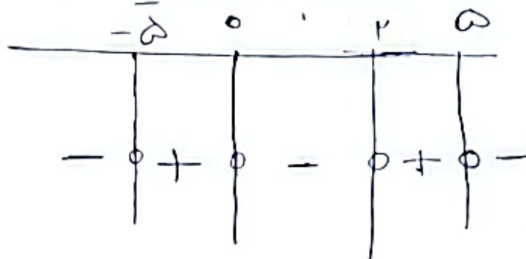


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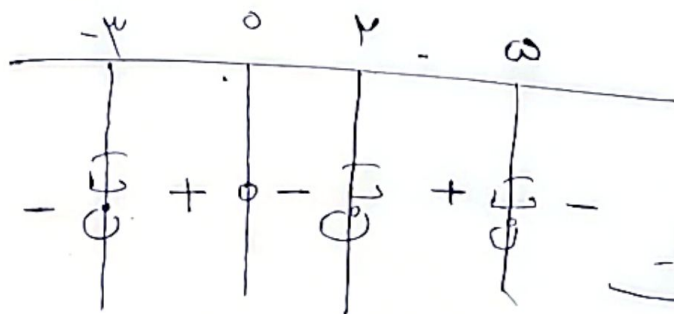
الربيع اعطاء دس

$$nf(n) \geq 0 \rightarrow f(n)_{\text{min}} : \omega, r, -\omega$$

$$D_f = [-\omega, 0] \cup [r, \omega]$$



$$n = r, -r, \omega$$



$$D_f = (-r, 0] \cup (r, \omega)$$

-r, -1, 0, r, r (نوع)

6 omega

$$n = -r \rightarrow f(-r) - r f(r) = (-r)^r - r(-r) + r = 1r$$

$$n = r \rightarrow f(r) - r f(-r) = (r)^r - r(r) + r = r$$

$$f(r) = r + r f(-r)$$

$$f(-r) - r f(r) = 1r$$

$$-r f(-r) = 1r$$

$$f(-r) = -4$$

$$f(1) = r(1) + r = \omega \rightarrow f(f(1)) = f(\omega)$$

$$f(\omega) = \omega - \sqrt{\omega} + r = r \rightarrow f(\omega) = r \rightarrow f(f(\omega)) = f(r)$$

$$f(r) = r(r) + r = v$$

$$f(f(1)) + f(f(\omega)) = r + v = 9$$

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

$$= a n^r - r a n + a - b n + b + r$$

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

$$= -r a n + a + b$$

(a) Jawab (a) dan (b)

$$\frac{-ra + (a+b)}{-ra + (a+b)} = \frac{4m+1}{-ra + (a+b)}$$

$$-ra = 4 \rightarrow a = -\frac{4}{r}$$

$$-ra + b = 1 \rightarrow b = a$$

$$\rightarrow a - b = -\frac{4}{r} - a = -1$$

$$f(r) = r^r - 4 + 1 = 1 \rightarrow r f(r) = r$$

$$f(-1) = 1 + 4 + 1 = 6$$

$$f(r) = r - 4 + 1 = -1 \rightarrow f(r) = -1$$

$$\frac{r+6}{-1} = \boxed{V}$$

9

$$f(r) = 1r + 1 = 1r$$

$$f(-r) = -r$$

$$f(r) = 4 + 1 = 5$$

$$\frac{r(1r) - r(r)}{5} = \frac{r1}{5}$$

10

$$f(r) = 1 \rightarrow f(f(r)) = f(1) = 4$$

$$f(r) = r \rightarrow f(f(r)) = f(r) = 4$$

$$f(1) = 4$$

$$\frac{4-4}{4-1} = \frac{0}{3} = \boxed{0}$$

11

$$f(x) = \frac{(x+r)^r + a}{(x+r)^r + 1}$$

$$a = \sqrt{r} - r \rightarrow x+r = \sqrt{r} \rightarrow (x+r)^r = r$$

$$f(\sqrt{r}-r) = \frac{r+a}{r+1} = r$$

$$f(r) = \frac{r^r + a}{r^r + 1} = \frac{r1}{1V}$$

9

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

10

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

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