

۲۰ آئین

$$y = \sqrt{x f(x)} \rightarrow x f(x) \geq 0 \rightarrow D_y = [-a, 0] \cup [r, a]$$

	-9	-25	0	7	6
x	-	-	0	+	+
$f(x)$	+	0	-	-	0
	-	0	+	0	+

① ✓

$$y = \sqrt{\frac{-n}{f(n)}}$$

$$\frac{-2}{f(x)} \geq 0$$

$-P$	$-P$	0	P	Q
-0	$+0$	-0	$+0$	
X	✓	✓	X	

$x > 0 \rightarrow$ متى

$$n < 0 \rightarrow \infty$$

$$D_y = (-\infty, 0) \cup (0, \infty)$$

2-20-25

$$f(x) - xf'(x) = x^2 - x^2 + 1 \xrightarrow{x=1} f(1) - 1f'(1) = 1$$

$$f \rightarrow -A(r) = r \rightarrow f(r) = -r$$

$$f(x) + \varepsilon = x^r - rx + r \rightarrow f(x) = x^r - rx \xrightarrow{x=-r}$$

$$f(-r) = r + 9 = \underline{10}$$

$$f(f(r)) + f(f(r)) = f(r) + f(r) = 9$$

$$f(1) \longrightarrow r_n + r \xrightarrow{n=1} Q = f(1)$$

$$f(a) \longrightarrow x - \sqrt{x+1} \xrightarrow{x=a} f(a) = 1$$

$$f(r) \longrightarrow r^2 + r \xrightarrow{x=r} f(r) = V$$

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

$$f(x-1) - f(x) = (-2a)x + a + b = 9x + 7 \rightarrow \begin{matrix} -2a = 9 \\ a = -\frac{9}{2} \end{matrix}$$

$$a+b=r \rightarrow -r+b=r \rightarrow b=a$$

$$a - b = -1 - 0 = -1$$

Q ✓

$$\frac{r f(r) + f(-1)}{f^r(r)} = \frac{r + 0}{(-1)^r} = \underline{V}$$

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$$f(r) = 9 - 9 + 1 = 1$$

$$f(-1) = 1 + r + 1 = 0$$

$$f(r) = r - 9 + 1 = -1$$

(P) ✓

$$\frac{r f(r) - r f(-r)}{f(r)} = \frac{(r \times -1 + r) - (r \times r)}{r} = \underline{\frac{r1}{r}}$$

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

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

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

(P) ✓

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

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(P) ✓

$$f(f(\sqrt{r} = r)) = f(r) = \frac{r1}{1r}$$

(P) ✓

$$x^r + rx + 0 = x^r + rx + r + 1 = (x+r)^r + 1$$

منقول

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$$x^r + rx + 9 = x^r + rx + r + 0 = (x+r)^r + 0$$

صورت

$$f(\sqrt{r} - r) = \frac{(\sqrt{r} - r + r)^r + 0}{(\sqrt{r} - r + r)^r + 1} = \frac{1}{r} = r \quad f(r) = \frac{r^r + 0}{r^r + 1} = \underline{\frac{r1}{1r}}$$

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

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

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

(P) ✓