

پایه انزلی

$$1 - y - 1 = f'_m(x) \cdot (x - 0) \rightarrow 0 - 1 = f'_0 \cdot x = \Rightarrow f'_m = \frac{x}{3}$$

$$2 - f'_A = m = \frac{r-1}{r-(-1)} = \frac{1}{3}$$

$$\text{بنابراین: } y = \frac{1}{3}x + \frac{x}{3} \Rightarrow \frac{1}{3}x + \frac{x}{3} = \sqrt{am} - 1 \Rightarrow$$

$$2x + x = 3\sqrt{am} - 1 \Rightarrow x^2 + 12x + 14 = 9am - 9 \Rightarrow$$

$$x^2 + (12 - 9a)x + 14 = 0 \xrightarrow{\Delta=0} 144 - 18(9a - 2) = 0$$

$$9a^2 - 14a - 2 = 0 = (9a+2)(a-2) = 0 \Rightarrow a = \frac{2}{9}$$

$$f_0 = \sqrt{r(0) - 1} = 3 = f_{(0)}$$

$$3 - f'_{(1)} = \frac{r}{x} \Rightarrow \frac{(r+m)(x) - (r+m)}{14} = \frac{r+m}{x} = r$$

$$r+m = x \Rightarrow m = 2 \quad f_{(1)} = 1 \Rightarrow x - r = n \Rightarrow n = 1 \Rightarrow m+n = 3$$

$$4 - f'_m = \frac{2x^2 + 3x + 9}{3 + 2x} \Rightarrow 3g - f = \frac{9 - (2x^2 + 3x + 9)}{3 + 2x}$$

$$- \frac{(2x)(3x+9)}{3+2x} = -2x \Rightarrow -\frac{6x^2}{3+2x} = 3g'_m - f'_m \rightarrow$$

$$\rightarrow x = \frac{0}{3} \rightarrow 3g'_m(0) - f'_m(0) = \frac{1}{3}$$

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پایه انور

08  $\delta - g' \cdot f'(g) \cdot (f \circ g)' \rightarrow g_{(n)} = \frac{1}{\sqrt{n}} \Rightarrow f_{(n)} = \frac{1}{\sqrt{\sqrt{n}}}$

09  $\Rightarrow f \circ g = -n \Rightarrow (f \circ g)' = -1$

11  $9 - f_{(n)} = \left(\frac{\varepsilon-1}{\varepsilon+1}\right)^2 \rightarrow f'_{(n)} = 2 \left(\frac{\varepsilon-1}{\varepsilon+1}\right) \left(\frac{\varepsilon-1}{\varepsilon+1}\right) \rightarrow$

12  $f'_{(n)} = -\varepsilon \rightarrow f'_0 = \frac{f_{(n)} - f_{(n-1)}}{n - n-1} \lim_{n \rightarrow \infty} = \frac{\varepsilon \varepsilon}{\varepsilon} = \varepsilon \Rightarrow g_{(n)} = -\varepsilon$

14  $V - \text{دو: } x, -x \Rightarrow y = \sqrt{x} \rightarrow (\sqrt{x})(-\sqrt{x}) = -1 \Rightarrow$

15  $x = \frac{1}{\varepsilon} \rightarrow y = \left(\frac{1}{\varepsilon}\right)^2 + 1 = \frac{\partial}{\partial \varepsilon} = \dots$

17  $\Lambda - \sqrt{x} (\varepsilon x^2 + 9) = mx \Rightarrow \Lambda x^2 + 9 = m\sqrt{x} \quad \textcircled{I}$

18  $f' = y' \rightarrow \sqrt{x} = \frac{m}{\sqrt{x}} \Rightarrow m = \sqrt{x} \quad \textcircled{II} \quad \textcircled{I \cap II} \rightarrow$

19  $\sqrt{x} = \frac{m}{\sqrt{x}} \Rightarrow \sqrt{x} = \frac{m}{\sqrt{x}} \Rightarrow x = \frac{1}{\varepsilon} \rightarrow x = \frac{1}{\varepsilon} \rightarrow$

20  $\Lambda \left(\frac{1}{\varepsilon}\right) + 9 = \frac{m\sqrt{\frac{1}{\varepsilon}}}{\frac{1}{\varepsilon}} \Rightarrow m = \Lambda\sqrt{\frac{1}{\varepsilon}} \Rightarrow y' = m = \Lambda\sqrt{\frac{1}{\varepsilon}}$

21  $9 - \frac{\sqrt{x}}{-x^2 + x + 1} = mx = \frac{1}{-x^2 + x + 1} \Rightarrow m\sqrt{x} \quad \textcircled{I}$

22  $f' = y' \Rightarrow \frac{\varepsilon x - 1}{(-x^2 + x + 1)^2} = \frac{m}{\sqrt{x}} \quad \textcircled{II} \quad \textcircled{I \cap II}$

روز مقاومت و پایداری - روز درفول

بارب انوار 08

$$\frac{-r^n + n + 1}{\epsilon_{n-1}} = \frac{m\sqrt{n}}{m} = r^n \Rightarrow$$

$$\Rightarrow 1 - r^n - r^n = -r^n + n + 1 \Rightarrow 1 - r^n - r^n - 1 = (n+1)(r^n - 1)$$

$x \gg 0 \Rightarrow x = \frac{1}{r} \Rightarrow y = \sqrt{\frac{r}{r}} \Rightarrow \frac{A}{\sqrt{\frac{r}{r}}} \quad \left(\frac{\sqrt{\frac{r}{r}}}{r}\right)$

10 -  $\lim_{x \rightarrow \sqrt{\frac{r}{r}}} g(x) = r^x \Rightarrow f(x) = (r^n)^x$

$$(f \circ g)' = g' \cdot f'(g) = \frac{1}{g^2} \cdot (x^r - 1)^{-\frac{1}{r}} \cdot (-\frac{1}{r})(r^n)(n^r - 1)^{\frac{r-1}{r}}$$

$$f(x) = 9x^2 \Rightarrow (f \circ g)'_{x=\sqrt{\frac{r}{r}}} = (-\epsilon\sqrt{5}) \times (9)(r)' = -99\sqrt{5}$$

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