

$$\frac{1}{\beta}$$

«سوی سزعلی»

$$\frac{\Sigma x + \beta^0}{\omega \beta'} \rightarrow \frac{\Sigma x}{\omega \beta'} + \frac{\beta^0}{\omega \beta'}$$

1

$$\omega \beta' = \omega (\omega \beta - 1) = \omega^2 \beta - \omega$$

$$\beta' - \omega \beta + 1 = 0 \rightarrow \beta' = \omega \beta - 1$$

$$\beta'' = \beta \beta' = \omega^2 \beta - \omega \quad \beta^0 = \beta \beta' = \omega^2 \beta - \omega$$

$$\alpha \beta = 1 \rightarrow \alpha = \frac{1}{\beta}$$

$$1 + \omega \beta - \omega = 0$$

$$\left(\frac{\frac{1}{\beta} + \omega^2 \beta - \omega}{\omega \beta - 1} \right) \times \beta = \frac{1 + \omega^2 \beta - \omega \beta}{\omega \beta - 1} = \frac{\omega^2 \beta - \omega}{\omega \beta - 1}$$

$$\frac{19 (\omega \beta - 1)}{\omega \beta - 1} = 19$$

2

$$\alpha_{\text{out}} = \frac{\mu}{\varepsilon}$$

$$\gamma_{\text{in}} \alpha_{\text{out}} = \frac{\mu}{\gamma}$$

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$$|\alpha - \beta| = \frac{\sqrt{b^p - \varepsilon a c}}{|a|}$$

$$\sqrt{\varepsilon k^p - p_0} = \frac{\varepsilon}{p} k$$

$$\varepsilon k^p - p_0 = \frac{14}{9} k^p$$

$$\Delta = \varepsilon k^p - \varepsilon(\omega) = \varepsilon k^p - p_0$$

$$14k^p - 110 = 14k^p$$

$$\left[\frac{k^p}{p} \right] \Rightarrow \left[\frac{9}{p} \right] = \boxed{K}$$

$$p_0 k^p = 110 \quad k^p = 9$$

$$x = \frac{w + (-d)}{p} = -1$$

$$y = a(x+1)^p + 1$$

4

$$y=0 \rightarrow \text{if } x \text{ is } a(x+1)^p + 1 = 0 \quad (x+1)^p = -\frac{1}{a}$$

$$x^p + p^p = d \rightarrow (1+d)^p = \frac{d}{p}$$

$$-\frac{1}{a} = \frac{p}{p} \rightarrow a = -\frac{p}{p}$$

$$\left(\frac{1}{p} \right)$$

$$y = -\frac{p}{p} (x+1)^p + 1$$

$$a=0 \rightarrow \text{if } y \text{ is } y = -\frac{p}{p} x + 1 = \frac{1}{p}$$

$$y = -\frac{p}{p} x + 1 = \frac{1}{p}$$

$$\Delta = p d + \varepsilon m \geq 0 \quad m \geq -\frac{p d}{\varepsilon}$$

$$m \geq -4$$

5

$$f\left(\frac{9}{p}\right) = \left(\frac{9}{p}\right)^p + d \times \frac{9}{p} + m = \frac{9}{3} + m$$

$$\frac{9}{3} + m < 0 \quad m < -\frac{9}{3}$$

$$m = -p, -\varepsilon, -d, -4 \Rightarrow \boxed{K}$$

$$m \leq -p$$

$$x = \frac{-1 \pm \sqrt{1 - 4m}}{2m}$$

6

$$y = m \left(\frac{y}{m} \right)^2 - \frac{1 \pm \sqrt{1 - 4m}}{2m} + dm - 1 = 1$$

$$dm^2 - 1 = 1$$

$$dm^2 - 1 - 1 = 0$$

$$\frac{y}{m} \rightarrow \frac{y}{\mu} = 1$$

$$(m-1)(dm+1) = 0$$

$$\alpha \rightarrow aq \quad \beta \rightarrow aq'$$

7

$$aq + aq' = -1(a+1)$$

$$aq \times aq' = 1a - 1$$

$$aq(1+q)$$

$$a'q''$$

$$x' = t$$

$$t = \frac{v + \sqrt{49}}{v}$$

$$t_r = \frac{v - \sqrt{49}}{v}$$

8

$$\Delta = E_9 + p_0 = 49$$

$$x_{1,2} = \pm \sqrt{\frac{v + \sqrt{49}}{v}}$$

$$S = \sqrt{\frac{v + \sqrt{49}}{v}} - \sqrt{\frac{v - \sqrt{49}}{v}} = 0$$

$$p_p - p_0 p + p_s =$$

$$p = \frac{v + \sqrt{49}}{v}$$

$$\rightarrow p' \left(\frac{E_9 + 1E\sqrt{49} + 49}{E_p} \right) = d_9 + v\sqrt{49}$$

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$$x_s = -\frac{-F}{Pk} = \frac{F}{K}$$

9

$$y_s = -\frac{\Delta}{\epsilon a} = \frac{14 - 4\epsilon k}{\epsilon k} = \frac{\epsilon + 4k}{k}$$

$$y = -\epsilon x - \epsilon \rightarrow -\frac{\epsilon + 4k}{k} = -\epsilon x \frac{k}{k} - F \rightarrow \epsilon 4k = 14 - \epsilon k$$

$$k = 4$$

$$y_s = -\frac{\epsilon + 4k}{4} = -\frac{14}{4} = -1$$

$$-mx'' + m x + 1 = -m - x$$

10

$$-mx'' + x(m+1) + (m+1) = 0$$

$$mx'' - (m+1)x - (m+1) = 0$$

$$\Delta = (m+1)^2 + 4m(m+1) = (m+1)(2m+1) < 0$$

$$\boxed{\epsilon > 0}$$

$$-1 < m < -\frac{1}{2}$$