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المعادلات

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$$(1) \frac{K\alpha}{\omega\beta} + \frac{\beta^{\omega}}{\omega\beta} = \frac{K}{\Delta} \times \frac{\alpha}{\beta} + \frac{1}{\Delta} \beta^{\omega}$$

$$\alpha\beta = r \rightarrow \beta = \frac{r}{\alpha} \rightarrow \beta^r = \frac{r}{\alpha^r} = \frac{K}{\Delta} \frac{\alpha}{\beta^r} = \frac{K}{\Delta} \frac{\alpha}{\frac{r}{\alpha^r}} = \frac{1}{\Delta} \alpha^{r+1}$$

$$\Rightarrow \frac{1}{\Delta} (\beta^{\omega} + \alpha^{\omega}) = \frac{1}{\Delta} (S - rSP) = \frac{1}{\Delta} (17\Delta - 10) = \frac{1}{\Delta} \times 7\Delta = 7$$

$$(2) K = \frac{r - 1/\Delta}{r} = \frac{4\Delta \times r}{r} = 4\Delta$$

$$(3) x^r + rKx + \Delta = 0 \quad \sqrt{rK^2 - 4\Delta} = r\sqrt{K^2 - \Delta} = \frac{r}{K} K$$

$$\frac{\sqrt{\Delta}}{101} = \frac{K}{r} K$$

$$\frac{1}{9} K^2 = K - \Delta \rightarrow K = \pm 10$$

$$\left[\frac{K^2}{r} \right] = \left[\frac{9}{r} \right] = K$$

$$r - 2P = \Delta \rightarrow P = -\frac{1}{r}$$

$$\frac{\sqrt{\Delta}}{101} = \frac{1}{r} K$$

$$\frac{K}{9} K' = K - \Delta \rightarrow K = \pm \sqrt{\Delta}$$

$$\left[\frac{K'}{r} \right] = \left[\frac{9}{r} \right] = K$$

$$\textcircled{f} \quad \frac{-\Delta + r}{r} = -1 \quad S = -r \quad \alpha' + \beta' = S - rP = r - rP = \Delta \rightarrow P = -\frac{1}{r}$$

$$a \left(n + r - \frac{1}{r} \right) \xrightarrow{\text{مربع}} a = -\frac{r}{\mu}$$

$$\rightarrow -\frac{r}{\mu} x + \frac{-r}{\mu} x + \frac{1}{\mu} \rightarrow \frac{1}{\mu} = \frac{1}{\mu}$$

$$\textcircled{g} \quad x = \frac{-\Delta \pm \sqrt{r\Delta + \epsilon m}}{-r} < \frac{9}{r} \rightarrow \pm \sqrt{r\Delta + \epsilon m} < \epsilon$$

$$+ \sqrt{r\Delta + \epsilon m} < \epsilon \quad \vee \quad - \sqrt{r\Delta + \epsilon m} < 19 \rightarrow -\frac{r\Delta}{\epsilon} < \frac{\epsilon m}{\epsilon} < -\frac{9}{\epsilon}$$

$$- \sqrt{r\Delta + \epsilon m} < \epsilon \quad \vee \quad \left\{ -4, -\Delta, -\epsilon, -\epsilon \right\} \rightarrow \epsilon$$

$$(4) \quad \frac{-\Delta}{r_a} = \frac{-1fE + r_m - E_m}{r_m} = r \quad \frac{-b}{\frac{1}{r_a} + r} = r$$

$$r_m^2 - 1fE + r_m - E_m = r$$

$$r_m^2 - 1fE + r_m - E_m = 0$$

$$\dot{r}_m = r_m - 1fE = 0$$

$$(m - e)(\dot{r}_m + e) \rightarrow m = r \quad m = -\frac{1f}{a} \times \rightarrow m = 0$$

$$(5) \quad \frac{1}{a} \frac{d}{dt} \left(\frac{1}{a} \right) = \alpha \beta a, \beta \rightarrow a' = \alpha \beta = r_a - 1 \rightarrow a' = r_a + 1$$

$$\alpha \beta = r_a - 1 \quad (a-1)' \rightarrow a = 1$$

$$(7) \quad x^2 - vx - a = 0 \rightarrow x = \frac{v \pm \sqrt{v^2 + 4a}}{2} \rightarrow t = \frac{v \pm \sqrt{v^2 + 4a}}{r}$$

$$t_1, t_2 \rightarrow x = \frac{v \pm \sqrt{v^2 + 4a}}{r} \quad t_1 = \frac{v + \sqrt{v^2 + 4a}}{r} \rightarrow x = \frac{v \pm \sqrt{v^2 + 4a}}{r}$$

$$S = x_1 + x_2 = \frac{v + \sqrt{v^2 + 4a}}{r} + \frac{v - \sqrt{v^2 + 4a}}{r} = \frac{2v}{r}$$

$$= -\frac{v - \sqrt{v^2 + 4a}}{r} \quad rP - rRS + RS = r \left(\frac{-v - \sqrt{v^2 + 4a}}{r} \right) = -v - \sqrt{v^2 + 4a}$$

$$t_1, x_1 \rightarrow x_1 = \frac{t_1 \sqrt{v^2 + 99}}{r} \quad t_1 = \frac{v \sqrt{99}}{r} \rightarrow x_1 = \frac{t_1 \sqrt{v^2 + 99}}{r}$$

$$S = x_1 + x_2 = \frac{v \sqrt{v^2 + 99}}{r} - \frac{v \sqrt{v^2 + 99}}{r} = 0 \quad p = x_1 t_1 - \sqrt{t_1} = -t_1$$

$$= -\frac{v \sqrt{v^2 + 99}}{r} \quad r p = -v \sqrt{v^2 + 99} = -v \sqrt{v^2 + 99}$$

⑨ $y = kx^r - \epsilon x - q$

$$y = -\epsilon x - \epsilon$$

$$\frac{-b}{2a} = \frac{r}{k}$$

$$\frac{r}{k} = 1 \rightarrow k = r$$

$$y = kx^r - \epsilon x^r - q \Rightarrow \frac{r}{k} - \frac{1}{k} - q = \frac{-\epsilon}{k}$$

$$\frac{-\epsilon}{k} - q = -\frac{r}{k} - \epsilon$$

$$\frac{r}{r} - q \Rightarrow \frac{-\epsilon}{r} - q = -1$$

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$$(1.) -m^2 + m + 1 = -m - 1 \rightarrow m^2 - (m+1) + m + 1 = 0$$

$$\Delta = (m+1)^2 - 4(m+1) \{0\}$$

$$0 = m^2 + 4m + 1 \rightarrow (m+1)(m+1) \{0\}$$

$$m = \left(-1, -\frac{1}{2}\right) \leftarrow$$

$$\frac{-1 \pm \sqrt{\frac{1}{4}}}{2}$$

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