

or $\frac{1}{\alpha}, \frac{1}{\beta}, \frac{1}{\gamma}$

$$1) \alpha^r - \delta \alpha + r = 0$$

$$\frac{f\alpha + \beta}{\delta \beta^r}$$

$$\delta \beta^r$$

$$\frac{f\alpha}{\delta \beta^r} + \frac{\beta^r \beta^r}{\delta \beta^r}$$

$$\frac{f\alpha}{\delta \beta^r} + \frac{\beta^r}{\delta} = \frac{\beta^r - r}{\delta \times (\beta - \delta) \times \beta}$$

$$S = \alpha + \beta = -\frac{b}{a} = -\frac{\delta}{1} = -\delta$$

$$P = \alpha\beta = \frac{c}{a} = r$$

$$\alpha^r - \delta \alpha + r = 0$$

$$\beta^r - \delta \beta + r = 0$$

$$\alpha^r - \delta \alpha = \beta^r - \delta \beta$$

$$\alpha(\alpha - \delta) = \beta(\beta - \delta) \quad \frac{\alpha}{\beta} = \frac{\beta - \delta}{\alpha - \delta}$$

$$1) (r, -f), (-1/\alpha, -f)$$

$$x_0 = \frac{r - 1/\alpha}{r} = 0/\gamma\delta$$

$$y = am^r + bm + c$$

$$-f = 14a - fb + c$$

$$14a - fb = \frac{9}{f}a - \frac{r}{f}b$$

$$-f = \frac{9}{f}a - \frac{r}{f}b + c$$

$$14a - \frac{9}{f}a = fb - \frac{r}{f}b$$

$$\frac{-b}{ra} = \frac{r}{f} \quad \frac{\delta \delta}{f} a = \frac{\delta}{f} b$$

$$-fb = 4a \quad a = \frac{\delta}{f} \times \frac{r}{f} \times \frac{f}{\delta} = -\frac{r}{11}$$

$$\text{imaginary} = \frac{-b}{a}$$

$$= \frac{-\frac{9}{f}r}{\frac{-f}{f}} = \left[\frac{r}{f} \right]$$

$$-rb = ra$$

$$-rb = rx - \frac{r}{f}$$

$$b = \frac{-9}{11} \times \frac{1}{f}$$

$$b = \frac{9}{rf}$$

$$r) \alpha^r + \gamma K \alpha + \delta = 0 \quad \frac{f}{r} K$$

$$\frac{\sqrt{\Delta}}{|\alpha|} = \sqrt{\Delta} = \sqrt{fK^r - f \times \delta \times 1} = \frac{f}{r} K$$

$$fK^r = r$$

$$\sqrt{K^r - \delta} = \frac{f}{r} K$$

$$\sqrt{K^r - \delta} = \frac{f}{r} K$$

$$K^r - \delta = \frac{f}{r} K^r$$

$$\frac{\delta}{r} K^r = \delta$$

$$K^r = \delta \times \frac{r}{\delta} \quad K = \pm r$$

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



1) $A(r, y) \quad B(-2, y)$

calculus

$y_s = 1$

$\Delta_1 = \frac{r-2}{r} = -1$

$\frac{b}{ra} = -1$

$b = -ra$

$-1 = 1$

fa

$-b + fa = fa$

$-fa + fa = fa$

$fa(-a+c) = fa$

$c-a=1$

$b^r = -ra^r$

$r(c-1)^r$

$\alpha^r + \beta^r = \Delta$

$y = a(x-h)^r + k$

$S^r - rP = \Delta$

$y = a(m+1)^r + 1$

$y = a/4 + 1$

$y = a/4 + 1$

$(\frac{-b}{a})^r - \frac{rc}{a} = \Delta$

$\frac{b^r}{a^r} - \frac{rc}{a} = \Delta$

$\frac{rc + r^r}{c-1} - \frac{rc}{c-1} = \Delta$

$\frac{-rc}{c-1} = 1$

$c-1 = -rc \quad rc = 1 \quad (c = \frac{1}{r})$

2) $m^r + 2m + m = 0$

$m = \frac{\Delta \pm \sqrt{\Delta^2 + 4m}}{r}$

$r\Delta + 4m > 0 \rightarrow m > -4/r\Delta$

$m_{max} = \frac{\Delta + \sqrt{\Delta^2 + 4m}}{r} < f\Delta$

$\Delta + \sqrt{\Delta^2 + 4m} < 4$

$\sqrt{\Delta^2 + 4m} < 4 - \Delta$

$\Delta^2 + 4m < 16$

$m < -\frac{4}{r} \rightarrow m < -\frac{4}{r}$

$-4/r\Delta < m < -4/r$

$m_{min} = -4/r\Delta$

$-4/r\Delta < m < -4/r$

$m_{min} = -4/r\Delta$

3) $y = mn^r - 1/rn + 2m - 1$

$m_{min} = r$

$y = n(\frac{4}{m})^r - 1/r(\frac{4}{m}) + 2m - 1$

$m_1 = r \rightarrow m = \frac{4}{r} = r$

$\frac{-b}{ra} = \frac{+4/r}{rm} = \frac{4}{m}$

$y_{min} = \frac{r^r}{m} - \frac{4}{m} + 2m - 1$

$m_2 = -r/4 \rightarrow m = \frac{4}{-r/4} = -r/4$

$y_{min} = \frac{-r^r}{m} + 2m - 1$

$r = \frac{-r^r}{m} + 2m - 1$

$r = \frac{-r^r}{m} + 2m - 1$

$r_m = -r/4 + 2m - 1$

$m_1 = r, m_2 = \frac{-r/4}{r} = -r/4$

$2mr - rm = r/4$



Senobar

$$x^r + r(a+1)x + ra - 1 = 0$$

or 1/10, 1/10

$$x, a, \beta$$

$$x\beta = a^r \rightarrow ra - 1 = a^r \quad a^r - ra + 1 = 0 \quad (a-1)^r = 0$$

$$x + \beta = -\frac{b}{a} = -\frac{ra - r}{1} = -ra + r$$

$$x\beta = \frac{c}{a} = ra - 1 = x\beta$$

$$x^r - vx - a = 0$$

$$x = x^r \quad x^r - vx - a = 0$$

$$x = \frac{v \pm \sqrt{v^2 + 4a}}{2}$$

$$x > 0 \quad \frac{v + \sqrt{v^2 + 4a}}{2} \quad x = \pm \sqrt{t_1} = \pm \sqrt{\frac{v + \sqrt{v^2 + 4a}}{2}}$$

$$S = x_1 + x_2 = +a - a = 0$$

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

$$r_s^r - r_s p + r_s \rightarrow r_{x(0)}^r - r_{x0} \times p + r_{x0} = 0$$

$$9) y = km^r - fm - y \quad y = -fm - y$$

$$x_s = -\frac{b}{ra} = -\frac{r}{k} \quad y_s = k\left(\frac{r}{k}\right)^r - f\left(\frac{r}{k}\right) - y = k\left(\frac{f}{k^r}\right) - \frac{f}{k} - y = \frac{f}{k} - \frac{f}{k} - y = -\frac{f}{k} - y$$

$$a = k \quad b = -f$$

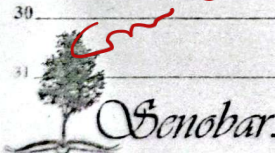
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$$\left(\frac{r}{k}, -\frac{f}{k} - y\right) \rightarrow -\frac{f}{k} - y = -f\left(\frac{r}{k}\right) - y$$

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

$$x_s = 1$$

$$y = -f(1) - y = -1$$



$$-m - x = -mnr + m\alpha + 1$$

$$mnr - (m+1)x - (m+1) = 0$$

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$$\Delta < 0 \rightarrow (m+1)r + (m+1)(m) < 0$$

$$1.) y = -mnr + m\alpha + 1 \quad y = -m - x$$

فرض کنیم

$$-mnr + 1 + m\alpha + 1 = 0 \rightarrow -mnr + m\alpha + 2 = 0$$

و Δ

$$\omega m^2 + 4m + 1 < 0$$

$$\Delta = (4m)^2 - 4 \times \omega \times 1 = 16m^2 - 4\omega < 0$$

$$(m+1)(\omega m+1) < 0$$

$$-1 < m < -\frac{1}{\omega} \rightarrow$$

فرض کنیم

صفر

$$1.) m^2 - 2m + r = 0$$

$$\frac{f\alpha + \beta^2}{\alpha\beta^2}$$

$$\alpha + \beta = r$$

$$\beta^2 = \alpha\beta - r$$

$$\beta^3 = \beta \times \beta^2 = \beta(\alpha\beta - r) = \alpha\beta^2 - r\beta$$

$$\beta^3 = \alpha\beta - r \rightarrow \beta^3 = \alpha(\alpha\beta - r) - r\beta = \alpha^2\beta - \alpha r - r\beta - r\beta = \alpha^2\beta - 4r\beta - r\alpha$$

$$\beta^4 = \beta \times \beta^3 = \beta(\alpha^2\beta - 4r\beta - r\alpha) = \alpha^2\beta^2 - 4r\beta^2 - r\alpha\beta = \alpha^2(\alpha\beta - r) - 4r(\alpha\beta - r) - r\alpha(\alpha + \beta) = 11\alpha^2\beta - 44r\alpha\beta - 12r\alpha^2$$

$$\beta^5 = \beta \times \beta^4 = \beta(11\alpha^2\beta - 44r\alpha\beta - 12r\alpha^2) = 11\alpha^2\beta^2 - 44r\alpha\beta^2 - 12r\alpha^2\beta = 11\alpha^2(\alpha\beta - r) - 44r\alpha(\alpha\beta - r) - 12r\alpha^2(\alpha + \beta) = 11\alpha^3\beta - 11\alpha^2r - 44r\alpha^2\beta + 44r^2\alpha - 12r\alpha^3 - 12r\alpha^2\beta = 11\alpha^3\beta - 11\alpha^2r - 32r\alpha^2\beta + 44r^2\alpha - 12r\alpha^3$$

$$\frac{r(\alpha - \beta) + (11\alpha^3\beta - 11\alpha^2r - 32r\alpha^2\beta + 44r^2\alpha - 12r\alpha^3)}{\alpha(\alpha\beta - r)} = \frac{r - r\beta + 11\alpha^3\beta - 11\alpha^2r - 32r\alpha^2\beta + 44r^2\alpha - 12r\alpha^3}{\alpha(\alpha\beta - r)}$$

$$\frac{f\alpha + \beta^2}{\alpha\beta^2} = \frac{11\alpha^3\beta - 11\alpha^2r - 32r\alpha^2\beta + 44r^2\alpha - 12r\alpha^3}{\alpha(\alpha\beta - r)}$$

$$\frac{f\alpha + \beta^2}{\alpha\beta^2} = \frac{11\alpha^3\beta - 11\alpha^2r - 32r\alpha^2\beta + 44r^2\alpha - 12r\alpha^3}{\alpha(\alpha\beta - r)}$$

$$\beta = \frac{\alpha + \sqrt{r}}{r}$$

فرض کنیم

