

$$y = a(x+1)^r + q \quad a(r)^r + q = 1 \quad 14a = -1 \quad a = -\frac{1}{14} \rightarrow y = \frac{1}{14}(x+1)^r + q \quad (1)$$

$$a(x+1)^r = 0 \rightarrow a(x+1)^r = \frac{1}{14} \rightarrow y = -\frac{1}{14}(x+1)^r + \frac{1}{14}$$

$$\Delta > 0 \rightarrow \frac{m^2 - 4m - 64}{(m-14)(m+8)} > 0 \quad \frac{-64}{+8-14} \Rightarrow (-\infty, 8) \cup (14, +\infty) \quad (2)$$

$$p > 0 \rightarrow \frac{m+8}{1} > 0 \quad m+8 > 0 \quad m > -8$$

$$s > 0 \rightarrow \frac{-m}{1} > 0 \quad m < 0$$

$$\left. \begin{array}{l} (-\infty, 8) \cup (14, +\infty) \\ (-8, -6) \end{array} \right\} (-6, -8)$$

$$\frac{r_{m+1}}{r_m} = \frac{1}{p} \frac{r-m}{r} \quad \frac{-r_{m+1}}{r} = \frac{r}{r_m} \Rightarrow q = r_m^r - a m + r \Rightarrow r_m^r - a m - V = 0 \quad m = \frac{4 \pm \sqrt{14}}{2} \rightarrow \frac{r}{14} \checkmark \quad (3)$$

$$\Delta > 0$$

$$x^r - r - x = 0 \rightarrow x_1 + x_r = 1 \quad x_1 x_r = -r \quad (x_1 + \frac{1}{x_1})(x_r + \frac{1}{x_r}) = (x_1 + \frac{1}{x_1})^r + \frac{x_1^r}{x_1} + \frac{1}{x_1} + \frac{1}{x_1 x_r} \quad (4)$$

$$x_r + \frac{1}{x_1} + x_1 + \frac{1}{x_r} = \frac{x_1^r}{x_1} + \frac{x_r^r}{x_r} + \frac{x_1 + x_r}{x_1 x_r} = 14/r \quad (x_1 + x_r)^r = r^r x_1 x_r (x_1 + x_r) \quad x_1^r - 14/r = -44/r \rightarrow r^r - 44 = r^r$$

$$x^r \sqrt{x} + r + \sqrt{x^r} - \sqrt{x^r} = \frac{1}{\sqrt{x^r}} \quad (1 = r \sqrt{x}) \Rightarrow x \sqrt{x} = \frac{1}{\sqrt{x^r}} - r \sqrt{x} = 0 \quad \sqrt{x^r} \rightarrow x^r - 1 - r x = 0 \quad (5)$$

$$\frac{r \pm \sqrt{r}}{r} \rightarrow \frac{1+\sqrt{r}}{1-\sqrt{r}} \quad 1 + \sqrt{r} + 1 - \sqrt{r} = r$$

$$x_1 = r x_r \quad r x_r x_r \Rightarrow r a y = \frac{r}{r} x_r^r = \frac{r}{q} \rightarrow x_r = \frac{r}{p} \quad x_1 = r \quad r + \frac{r}{p} = \frac{a}{p} \quad a = 1 \quad (6)$$

$$1 - (-1) = 14 \quad x_r = -\frac{r}{p} \quad x = -r \quad -r - \frac{r}{p} = \frac{a}{p} \quad a = -1$$

$$y = a x^r + (r+a)x \quad a > 0 \rightarrow + \rightarrow s > 0 \quad \frac{-r-a}{a} > 0 \rightarrow \frac{-\frac{r}{p}}{-\frac{1}{p} + \frac{1}{p}} \rightarrow (-\frac{r}{p}, 0) \quad (7)$$

$$p < 0 \rightarrow \text{از این ناحیه نمی گذرد}$$

$$(-\frac{r}{p}, 0) \cap (0, +\infty) = \emptyset \rightarrow \text{مساحت از ناحیه نمی گذرد}$$

$$\frac{-b}{r_a} \rightarrow \frac{r}{-r} = \frac{-a}{r} \rightarrow a = r \quad ab = r a r = 1 \quad y = 1 \quad x^r + r x + 1 - b = x^r + r x - r = 0 \Rightarrow b = r \quad (8)$$

Subject:

Year:

Month:

Day:

$$r\alpha n^r + a\alpha n - \gamma = 0 \quad \alpha_1, \alpha_2 \rightarrow \alpha_1 + \alpha_2 = \frac{-a}{r\alpha} = \frac{-1}{r} \quad r\alpha n^r - a\alpha n + b = 0 \rightarrow (\alpha_1 + 0/a), (\alpha_2 + 0/a) \quad (9)$$

$$S = \alpha_1 + \alpha_2 + 1 = \frac{1}{r} = \frac{a}{r} \quad a = 1 \rightarrow \alpha^r + \alpha - \gamma = 0 \rightarrow \frac{-1 \pm \sqrt{1+4\gamma}}{2} \xrightarrow{1/2} p = -\frac{r}{2} = \frac{b}{r} \quad b = -\gamma$$

$$\left[\frac{ab}{r}\right] = \left[\frac{-\gamma}{r}\right] \rightarrow -\gamma$$

$$\begin{array}{l} \alpha^r - \gamma\alpha + m = 0 \\ \quad \swarrow \quad \searrow \\ \quad \alpha \quad \quad \beta \end{array} \quad \begin{array}{l} \alpha + \beta = -\gamma \\ (n-1)\alpha + \beta' = \gamma \end{array} \quad \left. \begin{array}{l} \alpha + \beta = -\gamma \\ -\alpha + \beta' = \gamma \\ \beta - \beta' = -\gamma \end{array} \right\} \quad (10)$$

$$\alpha^r - \gamma\alpha - \gamma m = 0 \\ \quad \swarrow \quad \searrow \\ \quad \alpha \quad \quad \beta'$$