

$$\frac{r\alpha + \beta^r}{\Delta \beta^r} \Rightarrow \frac{r\alpha}{\Delta \beta^r} + \frac{\beta^r}{\Delta \beta^r} \rightarrow P = \alpha \beta = r \Rightarrow \beta = \frac{r}{\alpha}, \quad S = \alpha + \beta = \Delta \Rightarrow \frac{r\alpha}{\Delta (\frac{r}{\alpha})^r} + \frac{\beta^r}{\Delta} = \frac{\alpha^r}{\Delta} + \frac{\beta^r}{\Delta} \quad -1$$

$$\alpha + \beta^r = S - rps \Rightarrow \frac{\alpha^r - r\alpha^r + \Delta}{\Delta} = \frac{q\Delta}{\Delta} = 1q$$

$$x = \frac{-b}{ra} \Rightarrow \alpha + \beta = \frac{-b}{a} \quad x = \frac{x_1 + x_2}{r} \Rightarrow x = \frac{r(-1/a)}{r} = -1/a \quad \alpha + \beta = r\alpha = r(-1/a) = -r/a \quad -2$$

$$|\alpha - \beta| = \frac{\sqrt{\Delta}}{|a|} = \frac{rK}{r} \quad r^2 + rK\alpha + \Delta = 0 \Rightarrow S = -rK \quad P = \Delta \quad \Delta = rK^2 - r \quad -3$$

$$\frac{rK}{r} = \frac{\sqrt{rK^2 - r}}{1} \Rightarrow \frac{1}{q} K^r = rK^r - r \quad K^r - \Delta = \frac{rK^r}{q} \Rightarrow K^r = q \Rightarrow \left[ \frac{K^r}{r} \right] = \left[ \frac{q}{r} \right] \rightarrow \left[ \frac{r}{q} \right] = K$$

$$-1 = \frac{-b}{ra} \rightarrow \frac{-b}{a} = -r \quad (y-1) = a(m-(-1))^r \rightarrow y = am^r + ram + a+1 \quad -4$$

$$\alpha^r + \beta^r = \Delta \rightarrow S^r - rps = \Delta \rightarrow r - r\left(\frac{a+1}{a}\right) = \Delta \quad r - \frac{ra+r}{a} = \Delta \Rightarrow \frac{ra-r}{a} = 1 \quad a = -\frac{r}{r}$$

$$a+1 \rightarrow -\frac{r}{r} + 1 = \frac{1}{r}$$

$$\frac{-\Delta \pm \sqrt{ra+rm}}{-r} \Rightarrow \left( \frac{-\Delta \pm \sqrt{ra+rm}}{-r} < \frac{q}{r} \right) \times r \Rightarrow \Delta + \sqrt{ra+rm} < q \rightarrow \sqrt{ra+rm} < r \rightarrow ra+rm < r^2 \quad m < \frac{q}{r} - \Delta$$

$$\Delta > 0 \Rightarrow ra+rm > 0 \quad m > -\frac{ra}{r} \quad -\frac{ra}{r} < m < \frac{q}{r} \quad -r_2 - r_2 - \Delta_2 - r \Rightarrow \Delta \neq r$$

$$m > 0 \quad \left| \begin{array}{l} \frac{-b}{ra} \rightarrow \frac{1r}{rm} \rightarrow \frac{r}{m} \\ \frac{-\sqrt{\Delta}}{ra} \end{array} \right. \quad r = \frac{r^2}{m} - \frac{vr}{m} + \Delta m - 1 \Rightarrow r = \frac{\Delta m^r - r^2}{m} \Rightarrow \Delta m^r - r^2 - rm = 0 \quad -5$$

$$\frac{r \pm \sqrt{vrq}}{1.0} \quad \frac{-b}{ra} = \frac{1r}{rm} = r$$

$$\alpha \beta = a^r \rightarrow ra - 1 = a^r \rightarrow a^r - ra + 1 = 0 \quad (a-1)^r = 0 \quad -6$$

$$\alpha + \beta = -r(a+1) \quad \alpha \beta = ra - 1 \quad \underline{a=1}$$

$$x^r = t \quad t^r - vt - \Delta = 0 \quad \frac{v \pm \sqrt{v^2 + 4\Delta}}{2} = x^r = \frac{v \pm \sqrt{v^2 + 4\Delta}}{v} = x \pm \sqrt{\frac{v^2 + 4\Delta}{v^2}} \quad -7$$

$$r^r \rightarrow r\alpha \left( \frac{v + \sqrt{v^2 + 4\Delta}}{v} \right)^r = \Delta + v\sqrt{v^2 + 4\Delta} \quad p = \frac{-v + \sqrt{v^2 + 4\Delta}}{v} \quad S = 0$$

$$\frac{-b}{ra} = \frac{r}{rk} = \frac{r}{k} = 1 \quad \frac{-\Delta}{k} - r = r \quad k = r \quad y = r\alpha^r - r\alpha - r \rightarrow r\alpha - r\alpha - r = -r \quad -8$$

Subject:

Year:

Month:

Day:

$$-m^2 + m^2 + 1 \neq m - x$$

$$m^2 - (1+m)x - 1 - m \neq 0$$

$$(1+m)^2 - 4(1+m) - 1 - m$$

$$\Delta < 0 \quad -1$$

$$1m^2 + 2m + 1m + 1m^2 < 0$$

$$2m^2 + 3m + 1 < 0$$

$$m = \frac{-3 \pm \sqrt{5}}{4} \rightarrow \frac{r}{10}$$

$$-1 < m < -\frac{r}{10} \Rightarrow \text{no change in sign}$$