

$$\frac{-2+1}{r} s - r = 2s \rightarrow J = a(n-1) + K = a(n+1) - \frac{1}{r} \rightarrow \frac{1}{r} = a(r) - \frac{1}{r} \rightarrow a = \frac{1}{r} - \frac{1}{r} = 0$$

$$\rightarrow J = a(n-1) + K \rightarrow \frac{1}{r} (1+r)^t - \frac{1}{r} = \frac{q}{r} - \frac{1}{r} = \frac{1}{r}, r$$

$$x^t + 4x + C = 0 \rightarrow \alpha + \beta = -4, \alpha\beta = 0 \rightarrow \beta = -4 - \alpha \rightarrow r\alpha^t + r(-4-\alpha)^t = 1x\sqrt{r} + 1\Delta$$

$$\rightarrow r\alpha^t + r(\alpha+4)^t = 1x\sqrt{r} + 1\Delta \rightarrow r\alpha^t + r\alpha^t + r\alpha + 4r = 1x\sqrt{r} + 1\Delta \rightarrow \Delta\alpha^t + r\alpha + 4r = 1x\sqrt{r} + 1\Delta$$

$$\rightarrow \Delta\alpha^t + r\alpha - 1x\sqrt{r} = 0 \rightarrow \Delta = \frac{4r}{\alpha} + r + \frac{r\alpha}{\sqrt{r}} = \frac{4r\alpha + r\alpha\sqrt{r} + r\alpha}{\alpha\sqrt{r}}$$

$$\rightarrow \alpha = \frac{-r\alpha \pm \sqrt{16r^2 + r\alpha\sqrt{r}}}{10} \rightarrow \alpha = \frac{-r\alpha - \sqrt{16r^2 + r\alpha\sqrt{r}}}{10} \rightarrow \beta = \frac{-r\alpha + \sqrt{16r^2 + r\alpha\sqrt{r}}}{10} \rightarrow \alpha\beta = a = \frac{1}{10} - \frac{r\alpha\sqrt{r} + r\alpha\sqrt{r}}{100}$$

$$\frac{1}{\sqrt{\alpha}} + \frac{1}{\sqrt{\beta}} = \frac{\sqrt{\beta} + \sqrt{\alpha}}{\sqrt{\alpha\beta}} = \Delta \xrightarrow{\text{col } \sqrt{r}}, \frac{\beta + \alpha + r\sqrt{\alpha\beta}}{\alpha\beta} = \frac{m + 1r}{r\alpha} + r \times \frac{1}{r} = 10$$

$$= \frac{m + r}{r\alpha} = 10 \rightarrow m + r = 10\alpha \rightarrow m = -1 \rightarrow \frac{C}{a} = -r$$