

$$m = \frac{\lambda + \gamma}{r - \gamma} = -V$$

$$-Vm' = -1 \quad m' = \frac{1}{V}$$

نقطه وسط
پارابول

$$\begin{cases} x = \frac{r + \gamma}{r} = V \\ y = \frac{\lambda - \gamma}{r} = 1 \end{cases}$$

$$y - 1 = \frac{1}{V}(x - V)$$

$$\boxed{y = \frac{1}{V}x + \frac{r}{V}}$$

$$m_{BC} = \frac{V - V}{-r + 1} = \frac{-r}{r}$$

$$y - 1 = \frac{r}{r}(x - V)$$

$$-\frac{r}{c} \times m_{AH} = -1 \quad m_{AH} = \frac{c}{r}$$

$$ry = rx - \lambda$$

$$y - V = -\frac{r}{c}(x + 1)$$

$$ry = -rx + \lambda$$

$$\begin{cases} ry = rx - \lambda \\ cy = -rx + \lambda \end{cases}$$

$$\begin{cases} 1ry = 9x - \lambda \\ 1ry = -17x + \lambda \end{cases}$$

$$\begin{aligned} 2\lambda x &= c\lambda \quad x = \frac{c}{2} \\ y &= -\frac{1}{\lambda} \end{aligned}$$

$$\overline{BC} = \sqrt{(c(r+1))^2 + (V-c)^2} = \Delta$$

$$\overline{BC} - \overline{AH} = r$$

$$\overline{AH} = \sqrt{(r - \frac{c}{2})^2 + (1 + \frac{1}{\lambda})^2} = r$$

$$ry - rx = \lambda$$

$$ry - ax = r$$

$$\text{solve} = \frac{|1r - r|}{\sqrt{17 + r}} = \frac{1r}{r\sqrt{a}} = \frac{r}{\sqrt{a}} \quad r = \frac{r}{\sqrt{a}} \quad r = \frac{c}{\sqrt{a}}$$

$$S = \pi r^2 = \frac{9}{\lambda} \pi$$

$$m_{AB} = \frac{c - 1}{r - r} = -1$$

$$-1 \times m_{CH} = -1$$

$$m_{CH} = 1$$

$$\begin{cases} y = x - r \\ y = -x + \lambda \end{cases}$$

$$\begin{aligned} y &= \frac{c}{r} \\ x &= \frac{V}{r} \end{aligned}$$

$$y - 1 = -1(x - r)$$

$$y = -x + \lambda$$

$$y + V = 1(x + 1)$$

$$y = x - r$$

$$M = \left| \frac{r+r}{r} \right| = \left| \frac{c}{r} \right|$$

$$m_H = \sqrt{(c - \frac{V}{r})^2 + (r - \frac{c}{r})^2} = \sqrt{\frac{1}{r}} = \frac{\sqrt{r}}{r}$$

$$\frac{Vm - r}{m - \Delta} \times \frac{m + 1}{r - r} = -1$$

$$\frac{Vm^2 + m - r}{r - r - 1km + r_0} = -1$$

$$\Delta m^2 - 1cm + 1\lambda = 0$$

$$\Delta < 0 \Rightarrow \text{پارابول منحنی}$$

$$A: \begin{cases} x + ry = c \\ y - rx = -1 \end{cases} \quad \begin{aligned} x &= 1 \\ y &= 1 \end{aligned}$$

$$B: \begin{cases} x + ry = c \\ x + y = r \end{cases} \quad \begin{aligned} y &= -1 \\ x &= \Delta \end{aligned}$$

$$C: \begin{cases} y = rx - 1 \\ x + y = r \end{cases} \quad \begin{aligned} x &= \frac{\Delta}{c} \\ y &= \frac{V}{c} \end{aligned}$$

$$M: \begin{aligned} \frac{10}{c} \\ \frac{V}{c} \end{aligned}$$

$$\begin{cases} y = x \\ x + y = r \end{cases} \quad \begin{aligned} x &= r \\ y &= r \end{aligned}$$

$$m_{BC} \cdot m_{AH} = -1$$

$$\begin{aligned} y - 1 &= 1(x - 1) \\ y &= x \end{aligned}$$

$$\frac{\overline{AM}}{\overline{AH}} = \frac{\sqrt{(\frac{10}{c} - 1)^2 + (\frac{V}{c} - 1)^2}}{\sqrt{(r - 1)^2 + (r - 1)^2}} = \frac{\sqrt{\frac{\Delta}{r}}}{\sqrt{r}} = \frac{\Delta}{c}$$

$$y + \frac{1}{r}x + c = 0$$

$$A: \begin{bmatrix} -r & c \\ 0 & 0 \end{bmatrix} \quad B: \begin{bmatrix} 0 & 0 \\ -c & 0 \end{bmatrix}$$

$$\frac{|c|}{\sqrt{\frac{\Delta}{r}}} = \sqrt{r_0} \quad |c| = \Delta$$

$$\overline{AB} = \sqrt{(-rc - 0)^2 + (0 + c)^2} = |c| \sqrt{\Delta} = \Delta \sqrt{\Delta}$$

$$y + mx = x + r \xrightarrow{y=0} y = r$$

$$my - rx = rm \xrightarrow{y=0} y = r$$

$$\frac{r \times x}{r} = \frac{\Delta}{r} \quad x = \frac{\Delta}{r}$$

$$y + mx = x + r \xrightarrow{y=0} x = \frac{r}{m-1}$$

$$my - rx = rm \xrightarrow{y=0} x = -\frac{m}{r}$$

$$\left| \frac{r}{m-1} + \frac{m}{r} \right| = \frac{\Delta}{r}$$

$$\frac{r}{m-1} + m = \Delta$$

$$\frac{r}{m-1} + m = -\Delta$$

$$r + m^2 - m = \Delta m - \Delta$$

$$m^2 - \gamma m + 9 = 0$$

$$m = 3$$

$$r + m^2 - m = -\Delta m + \Delta$$

$$m^2 + km - 1 = 0$$

$$s = -1$$

$$\frac{r}{m} = \frac{r}{3} = \frac{\Delta}{r} \Rightarrow r^2 = 3\Delta \Rightarrow r = \sqrt{3\Delta}$$

$$y + r = r(x - r)$$

$$\text{معادله خط مورد نظر: } y - rx = -9$$

$$y = rx - 9$$

$$y - rx = -9$$

$$-9 = \frac{-r + c}{r}$$

$$y - rx = -r$$

$$c = -9$$

$$1 \times m = -1$$

$$m = -1$$

$$y - r = -1(x - 1)$$

$$y = -x + c$$

$$\begin{cases} y = -x + c \\ y = x + \Delta \end{cases}$$

$$y = r$$

$$x = -1$$

$$A' = \begin{vmatrix} -r \\ r \end{vmatrix}$$

$$rb - a = 1r + c = 1\Delta$$