

$$A(r, -q) \rightarrow \frac{\lambda + q}{r - r} = \frac{1q}{-r} = -q \sim \text{شیب}$$

$$B(r, \lambda)$$

$$M \begin{cases} \frac{r + r}{r} = 2 \\ \frac{\lambda - q}{r} = 1 \end{cases}$$

$$y = \frac{1}{r}x + b \xrightarrow{M(r)} 1 = \frac{r}{r} + b \rightarrow \frac{r}{r} \rightarrow y = \frac{1}{r}x + \frac{r}{r}$$

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$$-v \times a = -1$$

$$\downarrow$$

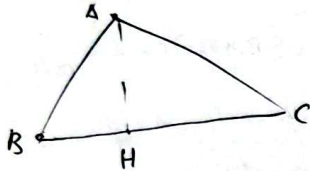
$$\frac{1}{v}$$

$$A(r, 1)$$

$$B(-r, v)$$

$$C(-1, r)$$

$$BC = \sqrt{(-1+r)^2 + (r-v)^2} = 0$$



$$\frac{AH \times BC}{r} = \cos \omega \rightarrow \frac{1}{r} \begin{vmatrix} r & 1 & 1 \\ -r & v & 1 \\ -1 & r & 1 \end{vmatrix} \rightarrow \frac{1}{r} \left((r+(-r)-1) - (-v+q-r) \right) = \frac{1}{r} (1) = 0$$

$$\frac{AH \times D}{r} = 0 \rightarrow \sqrt{AH} = r \checkmark \rightarrow 0 - r = r$$

تأیید است

$$ry - a\lambda - r \rightarrow ry - \lambda - 1 = 0 \sim \frac{|c-c'|}{|a^2+b^2|} = \frac{|-1+v|}{|r+1|} = \frac{q}{\sqrt{2}}$$

$$ry - \lambda = v \rightarrow ry - \lambda - v = 0$$

$$r_1 r = r \left(\frac{r}{\sqrt{2}} \right) = \frac{q\pi}{\omega}$$

$$A(r, r)$$

$$B(r, 1)$$

$$C(-1, -r)$$

$$\rightarrow M \begin{cases} \frac{r+r}{r} = 2 \\ \frac{r+1}{r} = 1 \end{cases}$$

$$\rightarrow BA \rightarrow \frac{r-1}{r-r} = -1 \rightarrow CH \rightarrow y = x + b \xrightarrow{(-1, -r)} -r = -1 + b \rightarrow y = x - r$$

$$\begin{cases} y = x - r \\ y = -x + 0 \end{cases} \rightarrow \begin{cases} x - r = -x + 0 \\ x = r \end{cases}$$

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

$$MH \rightarrow \sqrt{(r-\frac{r}{2})^2 + (\frac{r-r}{r})^2} = \sqrt{\frac{r}{r}} = \boxed{\frac{\sqrt{r}}{r}}$$

$$(m+1)\lambda - (r_m - r)y + 1 = 0$$

$$(r_m + r)x + (a-m)y - r = 0$$

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

$$\rightarrow a' = \frac{r_m + r}{m - 0}$$

$$\frac{r_m - r}{m+1} = \frac{r_m - r}{0-m} \rightarrow r_m r + r_m + r_m - r = -r_m r + r_m + 1 - r$$

$$0 = 2m r - 1 r_m + 1 \rightarrow \Delta < 0$$

منه تراشه محور باشد

$$AB: \lambda + r y = r \rightarrow y = -\frac{1}{r}\lambda + \frac{r}{r}$$

$$\rightarrow A: r\lambda - 1 = -\frac{1}{r}\lambda + \frac{r}{r} \rightarrow \frac{0}{r}\lambda = \frac{0}{r} \rightarrow \lambda = 1$$

$$AC: y = r\lambda - 1$$

$$BC: y = -\lambda + r$$

$$B: -\frac{1}{r}\lambda + \frac{r}{r} = -\lambda + r \rightarrow \frac{1}{r}\lambda = \frac{0}{r} \rightarrow \lambda = 0$$

$$y = -1$$

$$C: r\lambda - 1 = -\lambda + r \rightarrow \lambda = \frac{0}{r}$$

$$y = \frac{r}{r}$$

$$\frac{BC}{r} \rightarrow M \begin{cases} \frac{0+0}{r} = 0 \\ \frac{\frac{r}{r}-1}{r} = \frac{r}{r} \end{cases}$$

$$\rightarrow AM = \sqrt{(\frac{r-1}{r})^2 + (\frac{r-r}{r})^2} = \sqrt{\frac{0}{r}}$$

$$a_{BC} \rightarrow \frac{v+r}{\frac{r}{r}-1} = -1$$

$$y = -\lambda + r$$

$$a_{AH} = 1 \rightarrow y = \lambda$$

$$AH = \sqrt{(r-1)^2 + (r-1)^2} = \sqrt{r}$$

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

$$\rightarrow \frac{\sqrt{2}}{\sqrt{r}} = \boxed{\frac{0}{r}} \checkmark$$

$$y = -\frac{1}{r}x + b \rightarrow y + \frac{1}{r}x - b = 0 \rightarrow \frac{|-b|}{\sqrt{1 + \frac{1}{r^2}}} = \frac{|b|}{\frac{\sqrt{r^2}}{r}} \rightarrow \frac{r|b|}{\sqrt{r^2}} = \sqrt{r^2} \rightarrow |b| = 0$$

-v

$$\lambda = 0 \rightarrow y = \pm 0$$

$$y = \pm 0 \rightarrow \frac{1}{r}x = \pm 0 \rightarrow x = \pm 0$$

$$\gamma \rightarrow \sqrt{(1)^2 + (0)^2} = \sqrt{1+0} = \sqrt{1} = 1$$

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$$my = r_n + r_m \rightarrow y = \frac{r}{m}x + r \rightarrow \frac{r}{m}x + r = (1-m)x + r \rightarrow \frac{r}{m}x = (1-m)x$$

-A

$$S_D = \left| \frac{u^T - m + r}{r(m-1)} \right| \left| \frac{v^T y}{r} \right| = \frac{a}{r}$$

$$\hookrightarrow u = v, \quad u^T + r_{m-1} = 0$$

$$r_{x-1} = -r$$

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

$$\rightarrow \frac{r}{m} = 1-m \rightarrow r = m - m^2 \rightarrow m^2 - m + r = 0 \rightarrow \Delta < 0$$

محل وجود

$$y = r_n - r \rightarrow y' - r = r(\lambda' + r) - r \rightarrow y' - r = \lambda' + r \rightarrow \underline{y' = \lambda' + r}$$

$$m|_{-r} \rightarrow x' = x - r \rightarrow x = x' + r$$

$$y' = y + r \rightarrow y = y' - r$$

$$\frac{\alpha + r}{r} = r \rightarrow \alpha = r$$

$$\frac{\beta - r}{r} = -r \rightarrow \beta = -1$$

$$M_D' = r, \quad y = r_n - r$$

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$$A(1, r) \rightarrow A'A \rightarrow \begin{cases} \frac{a+1}{r} = -1 & a = -r \\ \frac{b+r}{r} = r & b = r \end{cases}$$

$$y = n + \omega$$

$$\rightarrow rb - a = 10$$

-1

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$$\hookrightarrow y' = -x + r \sim -x + r = x + \omega \rightarrow -r = \omega \rightarrow x = r$$

$$y = r$$