

$$m = \frac{dy}{dn} = \frac{1}{-1} = -V \quad \text{---}, \text{ slope of } m = \frac{1}{V}$$

$$y = \frac{x}{v} + \frac{z}{v}$$

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$$B(x, y) \rightarrow y - x = -\frac{\epsilon}{x}(n+1) \rightarrow y - x = -\frac{\epsilon}{x}x - \frac{\epsilon}{x} \rightarrow xy + \epsilon x - \epsilon = 0$$

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$$\frac{13C}{\sum \omega_i} \quad 13C - \{\omega_i\} = 0 - 2 = 4$$

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مثلاً: $\frac{|c'-c|}{\sqrt{a_1^2+b_1^2}} = \frac{|15-2|}{\sqrt{14+8}} = \frac{12}{\sqrt{22}} \rightarrow \{c\} = \frac{9\sqrt{22}}{22} = \frac{3}{10}\sqrt{22}$

$$S = \pi r^2 = \left(\frac{r}{1.}\sqrt{2.}\right)^2 \pi = \frac{9}{1.}\pi = 11\pi$$

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$$\bar{c}_M = \sqrt{40 + 14} = \sqrt{54} \rightarrow m \mid \begin{matrix} 2 \\ 2 \end{matrix}$$

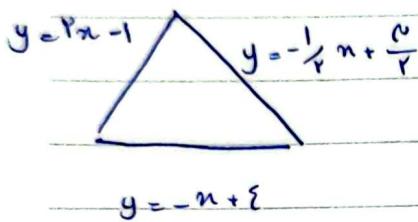
$$cm^r - cH^r = mH^r \rightarrow 1 - \frac{n1}{r} - \frac{n^r - n1}{r} = \frac{1}{r} \rightarrow \overline{mH} = \frac{\sqrt{r}}{r}$$

$$(r_m - r)x + (d - m)y - v = 0 \rightarrow a = \frac{r - r_m}{d - m} \quad m \neq d \quad (4)$$

$$(m+1)x + (\varepsilon - r_m)y + 1 = 0 \rightarrow a' = \frac{m+1}{r_m - \varepsilon} \quad m \neq r \quad (5)$$

$$a = \frac{-1}{a'} \rightarrow \frac{r_m - r}{d - m} = \frac{r_m - \varepsilon}{m+1} \rightarrow r_m^2 + m - r = -r_m^2 + \varepsilon m - \varepsilon$$

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



$$A \sim -\frac{1}{r}x + \frac{r}{r} = rx - 1 \quad (4)$$

$$A \mid 1 \quad -x + r = \varepsilon x - r \rightarrow \delta x = 0 \rightarrow x = 1 \quad y = 1$$

$$B \rightarrow -\frac{1}{r}x + \frac{r}{r} = -x + \varepsilon \rightarrow x = \delta \quad y = -1 \quad (5)$$

$$C \rightarrow rx - 1 = \varepsilon - x \rightarrow x = \frac{\varepsilon}{r} \quad y = \frac{r}{r}$$

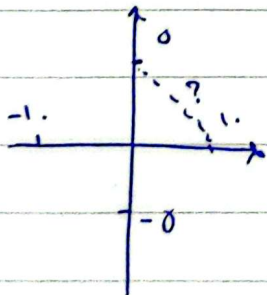
$$M \mid \begin{array}{c} \frac{r}{r} \\ \varepsilon \end{array} \rightarrow \overline{AM} = \sqrt{\left(\frac{\varepsilon}{r}\right)^2 + \left(\frac{1}{r}\right)^2} = \sqrt{\frac{\varepsilon^2 + 1}{r^2}} = \frac{\sqrt{\varepsilon^2 + 1}}{r} = \frac{\sqrt{2}}{r} = \frac{\omega\sqrt{r}}{r}$$

$$\overline{Alt} = \frac{|1 + 1 - \varepsilon|}{\sqrt{r}} = \sqrt{r}$$

$$\frac{\overline{AM}}{\overline{Alt}} = \frac{\omega}{r}$$

$$y + \frac{1}{r}x + c = 0 \quad \frac{|c|}{\sqrt{1 + \frac{1}{r^2}}} = \sqrt{r} \rightarrow |c| = \frac{\sqrt{r} \times \sqrt{2}}{r} = \delta$$

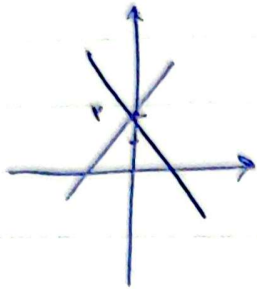
$$\rightarrow c = \pm \delta$$



$$\overline{AB} = \sqrt{1^2 + r^2} = \sqrt{1 + r^2} = \omega\sqrt{r}$$

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

$$\begin{cases} \textcircled{1} y = (1-m)x + r \\ \textcircled{2} y = \frac{\varepsilon}{m}x + r \end{cases} \quad \left. \begin{array}{l} \text{مستقيمات متوازيات} \\ \text{مقطع في نقطة} \end{array} \right\} \quad \left. \begin{array}{l} \text{نقطة التقاطع} \\ \text{نقطة التقاطع} \end{array} \right\} \quad \textcircled{1, 2, 5}$$



$$y=0 \xrightarrow{\textcircled{1}} x = \frac{-r}{1-m} = \frac{r}{m-1} \quad m \neq 1$$

$$\xrightarrow{\textcircled{2}} x = \frac{-rm}{\varepsilon} = -\frac{m}{r}$$

$$\left| \frac{\frac{r}{m-1} + \frac{m}{r} \right| \times \frac{1}{x} = \frac{\delta}{y}$$

$$\rightarrow \frac{\varepsilon + m^2 - m}{r(m-1)} = \frac{\delta}{r} \rightarrow m^2 - m + \varepsilon = \delta m - \delta \rightarrow m^2 - 4m + 9 = 0 \rightarrow m = 3$$

$$S_0 = \left| \frac{m^2 - m + \varepsilon}{r(m-1)} \right| \times r \times \frac{1}{r} = \frac{\delta}{r} \rightarrow \frac{m^2 - m + \varepsilon}{m-1} = \pm \delta \rightarrow m = 3, -1 \quad r_{x-1} = -r$$

$$\xrightarrow{\text{نقطة التقاطع}} \begin{pmatrix} r & r \\ -r & r \end{pmatrix} - \begin{pmatrix} 0 \\ -r \end{pmatrix} = \begin{pmatrix} \varepsilon \\ -1 \end{pmatrix} \quad \textcircled{4}$$

$$\begin{pmatrix} 1 \\ -1 \end{pmatrix} \rightarrow \begin{pmatrix} \varepsilon \\ -\varepsilon \end{pmatrix} - \begin{pmatrix} 1 \\ -1 \end{pmatrix} = \begin{pmatrix} r \\ -r \end{pmatrix} \quad \textcircled{5}$$

$$m = \frac{-r}{-1} = r \quad y+1 = r(x-\varepsilon) \rightarrow y = rx - 9$$

$$m = -1 \quad y - r = -(x-1) \rightarrow y = -x + r \quad \textcircled{1.}$$

$$-x + r = x - \delta \rightarrow x = -1 \rightarrow y = \varepsilon$$

$$\left| \begin{array}{l} \frac{1+m}{r} = -1 \rightarrow m = -r \\ \frac{r+y}{r} = \varepsilon \rightarrow y = r \end{array} \right. \quad \sim A'(-r, r) \rightarrow \begin{array}{l} a = -r \\ b = r \end{array} \quad \textcircled{5}$$

$$rb - a = 1r + r = 1\delta$$