

Subject :

Date :

امتحان الرياضيات - صف ١٤ ، تاريخ ١٤٠٢ / ١٢ / ١٤٠٢

$$M \begin{cases} \frac{x+y}{r} = r \\ \frac{x-y}{r} = 1 \end{cases}$$

$$m_{AB} = \frac{1-(-4)}{1-1} = -\infty \quad m' = +\frac{1}{\infty}$$

$$y-1 = \frac{1}{\infty} (x-1) \rightarrow y = \frac{1}{\infty} x - \frac{1}{\infty} + \frac{1}{\infty}$$

$$\rightarrow y = \frac{1}{\infty} x + \frac{1}{\infty} \quad \times \infty \rightarrow \boxed{y = x + 1}$$

$$BC = \sqrt{(\Delta y)^2 + (\Delta x)^2} = \sqrt{(-1)^2 + (1)^2} = \sqrt{2} = \boxed{d}$$

$$m_{BC} = \frac{r}{-r} \Rightarrow y-r = -\frac{r}{r}(x+1) \rightarrow y-r = -x - \frac{r}{r} \rightarrow y = -x + \frac{d}{r}$$

$$\rightarrow y + x - \frac{d}{r} = 0$$

$$AH = \frac{|1 + 2 - \frac{d}{r}|}{\sqrt{(1)^2 + (\frac{r}{r})^2}} = \frac{1}{\frac{d}{r}} = \boxed{r} \quad d-r = \boxed{r}$$

$$2y - x - r = 0$$

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

$$ry - rx - r = 0$$

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$$\frac{1}{\sqrt{14+2}} = \frac{1}{\sqrt{16}} = \frac{1}{4} \quad \frac{r}{\sqrt{2}} = \frac{r}{\sqrt{2}}$$

$$S = \frac{r}{\sqrt{2}} \times \frac{r}{\sqrt{2}} \times \pi = \boxed{\frac{r^2}{2} \pi} \xrightarrow{r=1} \boxed{\frac{\pi}{2}}$$

$$m_{AB} = \frac{r}{-r} = -1 \rightarrow m_{CH} = 1$$

CH: M في الدائرة H : M في الدائرة

$$y+r = 1(x+1) \rightarrow y+r = x+1 \rightarrow y = x-r \rightarrow y-x+r = 0$$

$$m_{CH} = \frac{1-r+1}{\sqrt{r}} = \frac{1}{\sqrt{r}} \rightarrow \frac{1}{\sqrt{r}} \times \frac{\sqrt{r}}{\sqrt{r}} = \boxed{\frac{\sqrt{r}}{r}}$$

$$mxm' = -1 \quad \frac{-(r'm-r)}{d-m} \times \frac{-(m+1)}{-r'm+\varepsilon} = -1 \quad \Rightarrow \quad \frac{r'm+r}{d-m} = \frac{-r'm+\varepsilon}{m+1}$$

$$-r'm' - r'm + r'm + r = -1 \cdot m + r' + r'm' - \varepsilon m \rightarrow -\delta m' + 1r'm - 1r = .$$

$$\delta m' - 1r'm + 1r = 0 \rightarrow m' - 1r'm + 1r = 0 \rightarrow \Delta = 149 - 149 \rightarrow \Delta < 0 \leftarrow \text{مربع متساوي}$$

$$A \begin{vmatrix} 1 \\ 1 \end{vmatrix} \quad B \begin{vmatrix} 0 \\ -1 \end{vmatrix} \quad C \begin{vmatrix} \frac{d}{r} \\ \frac{v}{r} \end{vmatrix}$$

$$ry = r-x \\ y = rx - 1$$

$$y = rx - 1 \\ y = rx - 1$$

$$ry - 1 = \varepsilon - x \rightarrow x = \frac{\delta}{r}, y = \frac{v}{r}$$

$$r-x = rx - r \rightarrow x = 1, y = 1$$

$$m = \left(\frac{1}{r}, \frac{r}{r} \right)$$

$$ry = r-x$$

$$ry = 1 - rx$$

$$r-x = 1 - rx \rightarrow x = 0, y = -1$$

$$m_{BC} = \frac{\frac{v}{r} + 1}{\frac{\delta}{r} - \varepsilon} = \frac{1 + \frac{v}{r}}{-\frac{1}{r}} = -1$$

$$y+1 = -1(x-\delta) \rightarrow y = -x + \varepsilon$$

$$AH = \frac{11+1-\varepsilon 1}{\sqrt{r}} = \frac{r}{\sqrt{r}}$$

$$AM = \sqrt{\left(\frac{v}{r}\right)^2 + \left(-\frac{1}{r}\right)^2} = \frac{\sqrt{\delta \varepsilon}}{r}$$

$$\frac{AM}{AH} = \frac{\frac{\sqrt{\delta \varepsilon}}{r}}{\frac{r}{\sqrt{r}}} = \frac{\sqrt{1 \dots}}{r} = \frac{1}{r} = \frac{1}{r} = \boxed{\frac{d}{r}}$$

$$\frac{x}{A} + \frac{y}{B} = 1 \rightarrow \frac{x_B + y_A}{AB} = 1 \rightarrow AB = x_B + y_A \quad \frac{B}{A} = \frac{1}{r} \rightarrow A = rB$$

$$\frac{|AB|}{\sqrt{A^2+B^2}} = \sqrt{r} \rightarrow \frac{rB}{\sqrt{0B^2}} = \sqrt{r} \rightarrow \frac{rB}{\sqrt{\delta}} = \sqrt{r} \rightarrow rB = \sqrt{1 \dots} \rightarrow B = d \\ 1. = \delta. \\ \sqrt{r\delta + 1 \dots} = \boxed{\delta\sqrt{\delta}}$$

$$my - rx = rm \rightarrow y = \frac{r}{m}x + r \quad P = -r$$

$$y + mx = x + r \rightarrow y = (1-x)x + r$$

$$y = \frac{\varepsilon}{m}x + r = 0 \rightarrow x = -\frac{m}{r} = B \left| -\frac{m}{r} \right.$$

$$\frac{r}{m}x + r = (1-x)x + r \rightarrow m = .$$

$$y = (1-m)x + r = 0 \rightarrow x = -\frac{r}{1-m} = C \left| \frac{r}{1-m} \right.$$

$$S = \frac{1}{r} \left| \frac{r}{r'm-1} - (-x) \right| = \frac{\delta}{r}$$

$$-\delta x + \delta = m' - m + \varepsilon$$

$$m' + \varepsilon m - 1 = 0 \rightarrow m = \frac{-\varepsilon \pm r\sqrt{\delta}}{r}$$

$$\frac{1}{r} \left| \frac{r + m(m-1)}{m-1} \right| = 0$$

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

$$P = (-r + \sqrt{\delta})(-r - \sqrt{\delta})(r) = (\varepsilon - d)(r) = \boxed{-\mu}$$

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$$\frac{a+0}{r} = r \rightarrow a = r$$

$$n = - \rightarrow y = -r$$

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

$$y - rn + r = - \rightarrow n = \frac{r}{r} = 1$$

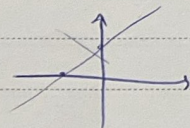
$$y+1 = r(n-2) = y+1 = rn-1$$

$$y = rn - 1$$

$$y - r = -(n-1) \rightarrow y - r = -n + 1 \rightarrow y = -n + r$$

$$-n + r = n + 0 \rightarrow -rn = r \rightarrow n = -1, y = r$$

$$m = \frac{1}{1} = 1 \rightarrow m' = -1$$



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

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

$$rb - a = 1r + 1r = 10$$