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19, V6

$$A \begin{vmatrix} 1 \\ -5 \end{vmatrix}, B \begin{vmatrix} 1 \\ 1 \end{vmatrix}$$

$$m = \frac{1 - (-2)}{1 - 1} = -\infty$$

$$\vec{r} = 0, 2$$

$$\vec{r} = \begin{vmatrix} 1 \\ 1 \end{vmatrix}$$

$$y - y_1 = m(x - x_1)$$

$$\frac{1}{0.1}$$

2

$$y - 1 = \frac{1}{v} (x - 1) \Rightarrow y = \frac{1}{v} x - \frac{1}{v} + 1$$

$$\Rightarrow y = \frac{1}{v} x + \frac{v-1}{v} \Rightarrow \boxed{vy = x + v - 1}$$

$$BC = \sqrt{1^2 + 1^2} = \sqrt{2} = 0$$

$$\frac{1}{2} \times 1 \times 1$$

$$S_{ABC} = \frac{1}{2} \begin{vmatrix} 1 & 1 & 1 \\ -1 & 1 & 1 \\ -1 & 1 & 1 \end{vmatrix} = \frac{1}{2} \times 0 = 0$$

2

$$\frac{1}{2} \times BC \times AH = 0$$

$$\frac{1}{2} \times 0 \times AH = 0$$

$$\vec{r} = 0, 2$$

$$AH = 1$$

$$BC \perp AH \Rightarrow BC \perp AH$$

$$AH \perp BC$$

$$\frac{1}{2} \times 1 \times 1$$

$$1) \quad \vec{r}y - ax = 1$$

$$\vec{r}y - 1 = 0$$

$$2) \quad \vec{r}y - x = v$$

$$\vec{r}y - x = v$$

$$m_1 = \frac{1}{v}$$

$$\vec{r}y - x = 1$$

$$\vec{r}y - x = v$$

$$d = \frac{|v-1|}{\sqrt{1+1}} = \frac{1}{\sqrt{2}}$$

$$\frac{1}{2} \times \frac{1}{\sqrt{2}} = \frac{1}{2\sqrt{2}}$$

$$S = \pi r^2 \left[\frac{1}{4} x \right]$$

$$\vec{r}y - x = 1$$

Ques -

$$M = \left| \frac{x+2}{x-1} \right| = \left| \frac{2}{1} \right|$$

$$\begin{aligned} C &+ \left| \begin{array}{l} m_{CH} = +1 - 1 = 0 = 2 - 2 \\ m_{AH} = -\frac{2}{2} = -1 = 0 = -2 + 2 \end{array} \right. \end{aligned}$$

min. length

$$0 = 2 - 2$$

$$0 = -2 + 2$$

$$0 = 0$$

$$0 = \frac{2}{2} \quad 2 = \frac{2}{1}$$

$$m_H \sqrt{\left(\frac{1}{2}\right)^2 + \left(\frac{1}{2}\right)^2} = \sqrt{\frac{2}{2}} = \frac{\sqrt{2}}{2}$$

$$(m+1)x + (0-m)y - 1 = 0 \quad a$$

$$(m+1)x - (m-1)y + 1 = 0 \quad b$$

Intersection point

$$m_a = \frac{-(m+1)}{0-m}$$

$$= \frac{-(m-1)}{0-m} = \frac{1(m-1)}{1(m+1)}$$

$$m_b = \frac{1(m+1)}{1(m-1)}$$

$$(m+1)(m-1) = (0-m)(m-1)$$

$$m^2 + m - m - 1 = 0 \quad m^2 - 1 = 0$$

$$m^2 - 1 = 0 \quad m = \pm 1$$

Ques 2018

$$\begin{cases} x+y=1 \\ x+cy=c \end{cases}$$

$$\begin{cases} x+cy=c \\ y-cx=-1 \end{cases}$$

سوال 2018

$$-y=1 \quad y=-1, \quad x=0$$

$$y=1, \quad x=1$$

$$B \parallel \begin{pmatrix} 0 \\ -1 \end{pmatrix}$$

$$A \parallel$$

20

$$\begin{cases} x+y=2 \\ y=cx-1 \end{cases}$$

$$x = \frac{0}{c}, \quad y = \frac{1}{c}$$

$$C \parallel \begin{pmatrix} 0 \\ c \end{pmatrix}$$

$$m \parallel \begin{pmatrix} 1/c \\ c \end{pmatrix}$$

$$\frac{A_{km}}{A_{lt}} = \frac{\sqrt{\frac{59}{9} + \frac{1}{9}}}{\sqrt{1+1}}$$

$$\Rightarrow \frac{\sqrt{60}}{\sqrt{2}} = \frac{\sqrt{60}}{c} = \frac{0}{2}$$

$$m_{BC} = \frac{\frac{1}{c}}{-\frac{1}{c}} = -1$$

$$m_{AH} = +1$$

$$A, B \rightarrow y=2 \text{ line}$$

$$\begin{cases} y+x=2 \\ y=2 \end{cases} \quad \begin{cases} x=2 \\ y=2 \end{cases}$$

$$-\frac{1}{c} = m \quad B(0, b), A(a, 0)$$

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

$$\frac{x}{a} + \frac{y}{b} = 1$$

$$\sqrt{a^2 + b^2} = 1 \quad \sqrt{1 + \frac{a^2}{c^2}} = 0 \quad \sqrt{0}$$

$$| -1 |$$

$$= \sqrt{1} = \sqrt{\frac{1}{a^2} + \frac{1}{b^2}} = \frac{1}{\sqrt{c}}$$

$$b = \frac{a}{c}$$

$$\sqrt{\frac{1}{a^2} + \frac{1}{b^2}} = \frac{1}{\sqrt{c}} \Rightarrow \frac{1}{a^2} + \frac{c^2}{a^2} = \frac{1}{c^2} \Rightarrow a^2 + c^2 = 1 \Rightarrow a=1, b=0$$

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$$y + m\alpha = \alpha + r \quad y = 0 \quad m\alpha = \alpha + r \quad \alpha = 0$$

$$m\alpha - \alpha = r \quad (m-1)\alpha = r \quad \alpha = \frac{r}{m-1}$$

$$y = 0, \alpha = -\frac{r}{r}$$

1, 1, 0

$$\alpha = 0 \quad m\alpha = r \Rightarrow y = r$$

1, 0

$$r = \frac{1}{r} \alpha / m-1, \alpha = \frac{r}{r}$$

$$\frac{r}{m-1} + \frac{m}{r} = \frac{0}{r} \quad \frac{r}{m-1} + m = 0 \Rightarrow m = -r + \sqrt{0}$$

$$m = r$$

$$m = -r - \sqrt{0}$$

$$m = -r = -1$$

$$\alpha = 0, y = -r \quad (0, -r)$$

$$m = 2 \quad y = r(-r) - (-r) = -1 \Rightarrow (2, -1)$$

$$y + 1 = r/(2-1) = y = r - 1$$

$$m = +1, m' = -1$$

$$y - r = -(1-1) = 0 \Rightarrow y = -2 + r \Rightarrow y + 2 = r$$

$$r\alpha - \alpha = r \quad r-1 = r \quad y = 2 + 0 \quad y - 2 = 0$$

$$r\alpha - \alpha = r \quad r-1 = r$$

$$A = \begin{pmatrix} a & b \\ -c & d \end{pmatrix}$$

$$b = r(1) - (-r) = 0$$

$$[x = -1]$$