

۲۰

سازمان اسنادی - یادداشت - شماره تلفن ۱۷

A(-۲, k) B(k, m)

①

$$\frac{m-k}{k-(-2)} = \frac{m-k}{4} = -\frac{1}{2} \rightarrow m-k = -2$$

۲

$$\sqrt{(k-(-2))^2 + (m-k)^2} = \sqrt{34+4} = \sqrt{38} \quad S = \sqrt{38}$$

A(-1, k) B(۳, ۱) C(x, y) D(-1-2x, y+۳)

②

(-1, k) b=a B(۳, ۱)



$$m_{AB} = \frac{k-1}{-1-3} = \frac{k}{-4} \rightarrow m_{BC} = \frac{k}{4}$$

$$x_A + x_C = x_B + x_D$$

$$-1 + a = 3 - 1 - a$$

۳

$$x_A = 3 \rightarrow a = \frac{3}{4}$$

$$b = \sqrt{(3-(-1))^2 + (1-k)^2} = a \quad \frac{k}{4}(3) + h = 1$$

$$a = \sqrt{(\frac{3}{4}-3)^2 + (-1-1)^2} = \frac{a}{4} \quad \frac{k}{4}(\frac{3}{4}) - 3 = -1 \quad h = -3$$

$$p = 2(a + \frac{a}{4}) = 1.5$$

$$\theta = 45^\circ$$

$$k m x + (m^2 - 1) y = 3$$

④

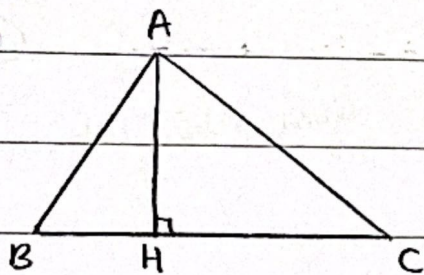
$$\tan \theta = \sqrt{3} \rightarrow a = \sqrt{3} \rightarrow \frac{k m}{1-m^2} = \sqrt{3}$$

۵

$$\sqrt{3} - \sqrt{3} m^2 = k m$$

$$\sqrt{3} m^2 + k m - \sqrt{3} = 0 \rightarrow |a-b| = \sqrt{\Delta} = \frac{\sqrt{k^2 - 4\sqrt{3}(-\sqrt{3})}}{\sqrt{3}} = \frac{k}{\sqrt{3}}$$

Scibó



AH $\rightarrow$ A nokta
BC'ye

$$C(1,1) \quad B(r,r) \quad A(1,9) \quad (K)$$

$$AH = \frac{|y - y_1 + r|}{\sqrt{1 + r^2}} = \frac{1}{\sqrt{1 + r^2}} \times \frac{\sqrt{1 + r^2}}{\sqrt{1 + r^2}} = \frac{1}{\sqrt{1 + r^2}}$$

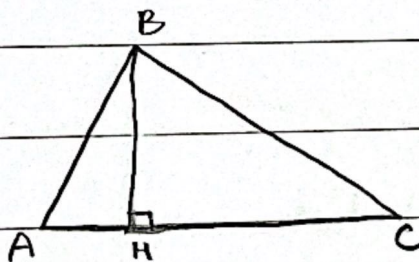
$$m_{BC} = \frac{1 - r}{1 - r} = \frac{1}{r} = (P)$$

$$r(r) + h = r \rightarrow h = -r \rightarrow y = r - r$$

$$AB = y + rx = 1 \rightarrow y = -rx + 1$$

$$AC = ry - rx = 1$$

$$BC = ry - rx = -1 \rightarrow y = \frac{1}{r}x - \frac{1}{r}$$



$$rx + 1 = \frac{1}{r}x - \frac{1}{r}$$

$$1 + \frac{1}{r} = \frac{1}{r}x + rx$$

$$\frac{r+1}{r} = \frac{1+x}{r} \rightarrow x = 1 \quad B(r,1)$$

$$BH = \frac{|ry - rx - 1|}{\sqrt{1 + r^2}} = \frac{r}{\sqrt{1 + r^2}}$$

$$(0, -4) \quad \left(-\frac{r}{r}, 0\right) \quad m = \frac{0 - (-4)}{-\frac{r}{r}} = \frac{4}{-\frac{r}{r}} = \frac{-4r}{r} = -4 \quad (4)$$

$$y = -4x - 4 \rightarrow x = -4x - 4$$

$$4x = -4 \rightarrow x = \frac{-4}{4} = -1$$

$$\boxed{\frac{1}{\sqrt{1 + r^2}} = \frac{r}{\sqrt{1 + r^2}}}$$

$$y - ax = 1$$

$$ay - x = a - 1$$

مقابلہ عکسہ سے یہ سبب ملتا ہے

(✓)

$$x = 0$$

$$(1, 2)$$

$$S = ?$$

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

$$a = 1 \rightarrow y = x + 1$$

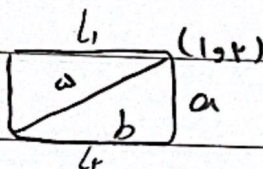
$$y = x + 1 \rightarrow (1, 2)$$

صاف ہو گیا

(✓)

$$a = -1 \rightarrow y = -x + 1$$

$$y = -x + 1$$



$$a = \frac{|1-1|}{\sqrt{2}} = \frac{1}{\sqrt{2}}$$

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

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

$$\left(\frac{1}{\sqrt{2}}\right)^2 + b^2 = a^2 \rightarrow b = \frac{1}{\sqrt{2}}$$

$$A(x, 0)$$

$$x - 3y = 1$$

(✓)

$$3y = x - 1 \rightarrow y = \frac{x-1}{3}$$

$$-3(x) + h = 0 \rightarrow h = 3x$$

$$\frac{x}{3} - \frac{1}{3} = 0 \rightarrow x = 1$$

$$-3x + 1 = \frac{x-1}{3}$$

$$-9x + 3 = x - 1 \rightarrow 3 = 10x \rightarrow x = \frac{3}{10}$$

$$\frac{3 \times 3}{10} = \frac{9}{10} = \frac{3 \times 3}{10} = 0.9$$

$$x = \frac{|1-1|}{\sqrt{10}} = \frac{1}{\sqrt{10}}$$

$$x = \sqrt{(3/10)^2 + (0.9)^2} = \frac{9\sqrt{10}}{10}$$

$$\frac{1}{3} \times \frac{3}{\sqrt{10}} \times \frac{9\sqrt{10}}{10} = 1.35$$

$$\left(-\frac{1}{3}, b\right) \quad \left(-\frac{1}{3}, a\right)$$

(✓)

$$m = \sqrt{3} \rightarrow \frac{a-b}{-\frac{1}{3} + \frac{1}{3}} = \sqrt{3} \quad a-b = \frac{\sqrt{3}}{4}$$

$$x = \sqrt{(a-b)^2 + \left(-\frac{1}{3} + \frac{1}{3}\right)^2} = \frac{1}{4} \quad x = \frac{\sqrt{3}}{4}$$

Scanned with

$$S_{L'OA}^L = \sqrt{r^2 + k^2} = a$$

(10)

$$m_{OA} = \frac{k}{r} \rightarrow m_L = \frac{-r}{k} \quad m_{L'} = \frac{k}{r} \rightarrow OA \parallel L'$$

(P)

$$y_L = \frac{-r}{k}x - \frac{r\omega}{k}$$

$$y_{OA} = \frac{k}{r}x \quad y_{L'} = \frac{k}{r}x + c$$

$$L' \perp OA \text{ then } S_{L'OA}^L = S_{L'OA}^L \rightarrow \frac{c}{\sqrt{1 + \frac{16}{9}}} = a$$

$$c = \frac{r\omega}{r}$$

$$\left(\frac{-r}{k}x - \frac{r\omega}{k} = \frac{k}{r}x + \frac{r\omega}{r} \right) \times 11$$

$$r\omega x = -11r\omega \rightarrow x = -11$$

$$y = \frac{-r}{k}x + \frac{r\omega}{r} = (-1)$$

$$xy = 11 \quad \checkmark$$

