

14. المثلث

المثلث

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$$m = \frac{1+4}{1-2} = -3 \Rightarrow m' = \frac{1}{3} \quad y = \frac{1}{3}x + b \quad (1)$$

$$A(1, 2) \Rightarrow \left(\frac{1+4}{1}, \frac{1+4}{1} \right) \Rightarrow (1, 1) \quad 1 = \frac{1}{3}x + b$$

$$b = \frac{2}{3}$$

$$y = \frac{1}{3}x + \frac{2}{3}$$

$$BC = \sqrt{(-1+2)^2 + (1-2)^2} = \sqrt{2} \quad (2)$$

$$m = \frac{2-1}{-1+1} = \frac{1}{0} \Rightarrow m' = 0 \quad y = 0x + b$$

$$1 = 0x + b$$

$$b = 1$$

$$x - y = 1$$

$$AH = \frac{|1 \times 1 - 1 \times 2 - 1|}{\sqrt{1^2 + 1^2}} = \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} \quad \Delta = 1$$

$$\begin{cases} x - y = 1 \\ x - y = 2 \end{cases} \quad \frac{1}{1} = \frac{-1}{-1} \quad a = 1$$

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

$$S = \pi r^2$$

$$\frac{9}{4} \pi$$

$$m_2(r, r) \quad m_{BA} = \frac{r-1}{r-2} = \frac{r}{-r} = -1$$

(8)

$$m = 1$$

$$y = m + b \quad \rightarrow \quad -r = -1 + b \Rightarrow b = -r$$

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

$$y - m + r = 0$$

$$(\omega - m)y = -(rm - r)m + v$$

$$-(rm - r)y = -(m + 1)m - 1$$

$$\frac{-rm + r}{\omega - m} = \frac{rm - r}{m - 1} \rightarrow \omega m^2 - 1rm + 1 = 0$$

$$\Delta = 1 - 4$$

طوبه

$$\begin{cases} x + ry = r \\ y - rm = -1 \end{cases}$$

$$\begin{cases} m + ry = r \\ n + y = r \end{cases}$$

$$\begin{cases} y - rm = -1 \\ m + y = r \end{cases}$$

$$\omega y = \omega$$

$$y = 1 \quad m = 1$$

$$A = (1, 1)$$

$$y = -1$$

$$m = \omega$$

$$B = (\omega, -1)$$

$$-rm = -\omega$$

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

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

$$m_2\left(\frac{1}{r}, \frac{r}{r}\right)$$

$$Am = \sqrt{\left(\frac{r}{r} - 1\right)^2 + \left(\frac{1}{r} - 1\right)^2} = \frac{\sqrt{2}}{r}$$

TANDIS

$$m_{BC} = \frac{\frac{1}{r} + 1}{\frac{\omega}{r} - \omega} = \frac{\frac{1}{r} + 1}{-\frac{\omega}{r}} = -1$$

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$$y = -m + b \xrightarrow{B} -1 = a + b \rightarrow b = -2 \quad y = -m + \varepsilon$$

$$d = \frac{|1 + 1 + \varepsilon|}{\sqrt{1^2 + 1^2}} = \frac{4}{\sqrt{2}} = 2\sqrt{2} \quad \frac{A_m}{A_H} = \frac{\frac{2\sqrt{2}}{r}}{\frac{2\sqrt{2}}{r}} = \frac{2\sqrt{2}}{4}$$

$$\frac{|y + \frac{1}{r}x + b|}{\sqrt{a^2 + b^2}} = \sqrt{r_0} \rightarrow \frac{|-b|}{\sqrt{\frac{a}{\varepsilon}}} = \sqrt{r_0} \quad (\checkmark)$$

$$|-b| = \frac{\sqrt{a}}{r} \times r\sqrt{\varepsilon} = a \quad |b| = a \quad b = \begin{cases} -a \\ a \end{cases}$$

$$y = -\frac{1}{r}x - a \quad a = -\frac{1}{r}x - a \quad x = -10 \quad A = (-10, 0)$$

$$y = -\frac{1}{r}x + a \quad a = -\frac{1}{r}x + a \quad x = 10 \quad B = (0, a)$$

$$AB = \sqrt{(a - 0)^2 + (10 - 0)^2} = \sqrt{10a} \quad A = (+10, 0) \quad B = (0, a)$$

برای دو نقطه
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$$y = (1 - m)x + r \rightarrow m = \frac{-r}{1 + m} \quad (1)$$

$$y = \frac{\varepsilon}{m}x + r \rightarrow m = -\frac{r}{\varepsilon}$$

$$\frac{-m^2 + m + \varepsilon}{r - rm} = \pm \frac{a}{r} \quad m = r \quad m = -r \pm \sqrt{a}$$

$$(-r + \sqrt{a})(-r - \sqrt{a})(r) = -r$$

Subject:

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1

$$\frac{\alpha + 0}{r} = r \quad \alpha = \varepsilon$$

$$u = 0 \rightarrow y = -r \quad (7)$$

2

3

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

$$y = rm + r = 0$$

4

5

$$y + 1 = r(u - \varepsilon)$$

$$m = \frac{r}{1} = r$$

6

7

$$y + 1 = rm - 1$$

8

$$y = rm - 2$$

9

10

$$MAA' = -1 \rightarrow y = -x + b \quad r = -1 + b \quad b = r$$

$$y = -x + r$$

$$y = x + a$$

$$y = -x + r$$

$$\frac{r+b}{r} = 2$$

$$x = -1, y = 2$$

$$b = 9$$

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

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