

$$\textcircled{1} \quad \frac{m-k}{r+r} = \frac{m-k}{s} = \frac{-1}{r} \Rightarrow -r = m-k \Rightarrow k-r = m$$

$$\sqrt{(r+r)^2 + (k-r-k)^2} = \sqrt{r^2 + 9} = \sqrt{r^2 + 9} \Rightarrow (\sqrt{r^2 + 9})^2 = r^2 + 9$$

$$\textcircled{2} \quad n-1 = r-1-n \Rightarrow rn = r \Rightarrow n = \frac{r}{r}$$

$$\frac{r}{r}x - r = y \Rightarrow \frac{r}{r} \times \frac{r}{r} - r = -1$$

$$AB = \sqrt{(r+1)^2 + (r-1)^2} = \sqrt{9 + 16} = 5 \Rightarrow 2\left(\frac{\Delta}{r} + \frac{\Delta}{r}\right) = 10 + \Delta = 15$$

$$BC = \sqrt{(r-1/5)^2 + (1+1)^2} = \frac{\Delta}{r}$$

$$\textcircled{3} \quad \tanh \theta = \sqrt{r} \Rightarrow \frac{-rm}{m^2-1} = \sqrt{r} \Rightarrow -rm = \sqrt{r}m^2 - \sqrt{r}$$

$$\Rightarrow \sqrt{r}m^2 + rm - \sqrt{r} = 0 \Rightarrow m = \frac{-\sqrt{r} \pm \sqrt{r^2 + 4r}}{2\sqrt{r}} \quad \frac{\sqrt{r}}{r} + \frac{r\sqrt{r}}{r} = \frac{r\sqrt{r}}{r}$$

$$\textcircled{4} \quad \frac{1}{r} \begin{vmatrix} 1 & r & 1 \\ 1 & r & 1 \\ 1 & 1 & 1 \end{vmatrix} = 2 \quad BC = \sqrt{(r-r)^2 + (1-r)^2} = \sqrt{r^2 + 1}$$

$$r\sqrt{r^2 + 1} \times Ah = 2r \Rightarrow Ah = \frac{2}{r\sqrt{r^2 + 1}} = \frac{10}{r\sqrt{r^2 + 1}}$$

$$\textcircled{5} \quad \begin{cases} ry - rn = -19 \\ ry - rn = 1v \end{cases} \Rightarrow \begin{cases} ry - rn = 1v \\ y + rn = v \end{cases} \Rightarrow \begin{cases} ry - rn = -19 \\ y + rn = v \end{cases}$$

$$C: n=0, y=1 \quad A: n=1, y=5 \quad B: n=r, y=1$$

$$AC = \sqrt{(r-1)^2 + (n-1)^2} = 5$$

$$\frac{1}{r} \begin{vmatrix} 5 & 1 & r \\ 1 & 0 & 1 \\ 1 & 1 & 1 \end{vmatrix} = 11 \Rightarrow 11 = \frac{\Delta \times Bh}{r} \Rightarrow Bh = \frac{r}{\Delta} = \frac{r}{5}$$

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$$\textcircled{9} \quad \frac{y}{-4} + \frac{x}{\frac{-2}{4}} = 1 \Rightarrow \frac{y}{-4} + \frac{4x}{-2} = 1$$

$$\Rightarrow -3y - 2x = 1 \Rightarrow y + 1x = -\frac{1}{3} \quad \left. \begin{array}{l} x + 1x = -\frac{1}{3} \\ x = y \end{array} \right\} \Rightarrow 9x = -\frac{1}{3}$$

$$x = \frac{-\frac{1}{3}}{9} = \frac{-1}{27}$$

$$\sqrt{\left(0 + \frac{-1}{27}\right)^2 + \left(0 + \frac{-1}{27}\right)^2} = \frac{\sqrt{2}}{27}$$

$$\textcircled{10} \quad \frac{1}{a} = a \Rightarrow a = \pm 1 \quad \begin{cases} y - x = 0 \Rightarrow x = y \\ y - x = 1 \Rightarrow x + 1 = y \end{cases}$$

$$\frac{|1-1|}{\sqrt{1^2+1^2}} = \frac{\sqrt{2}}{2} \quad \text{و} \quad x^2 = 10 - \frac{4}{2} \Rightarrow x^2 = \frac{16}{2} \Rightarrow x = \frac{4}{\sqrt{2}}$$

$$\frac{\frac{4}{\sqrt{2}} \times \frac{\sqrt{2}}{2}}{\frac{4}{\sqrt{2}}} = \left(\frac{4}{2}\right)$$

$$\textcircled{11} \quad AM = AB \rightarrow AB = \frac{|1-1|}{\sqrt{10}} = \frac{1}{\sqrt{10}}$$

$$\begin{aligned} AB \perp BC &\rightarrow y_{AB} = -3x + 12 \rightarrow \begin{cases} 3x + 12 = y \rightarrow x_B = \frac{1}{3} \\ \frac{x-1}{3} = y \rightarrow y_B = 0.9 \end{cases} \\ \frac{AB \times BC}{2} &= \sqrt{11} \times \sqrt{0.9} = \left(\frac{3\sqrt{11}}{10}\right) \end{aligned}$$

پانچواں نہ ایفم شیب خط BC + است

و مسئلہ ABC دنا حیثی الی است پس

پایندہ ترین مساحت مسئلہ برابر است بازمانی کر، طول از بعد باشد ← 4/0

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$$\frac{b-a}{\frac{-1}{r} + \frac{1}{r}} = \sqrt{r} \Rightarrow b-a = \frac{\sqrt{r}}{r} - \frac{\sqrt{r}}{r}$$

$$4b-9a = 4\sqrt{r} - 9\sqrt{r}$$

$$\Rightarrow b-a = \frac{\sqrt{r}}{4} \Rightarrow b = \frac{\sqrt{r}}{4} + a$$

$$\left(\frac{1}{r} - \frac{1}{r}\right)^r + \left(\frac{\sqrt{r}}{4} + a - a\right)^r = \frac{1}{r^{\frac{r}{4}}} + \frac{r}{r^{\frac{r}{4}}} = \frac{r}{r^{\frac{r}{4}}} = \frac{1}{r} \Rightarrow \frac{1}{r}$$

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

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$$(0+x)^r + (0+y)^r = (0-x)^r + (0-y)^r$$

$$r0 = 9 + 17 = x^r + y^r$$

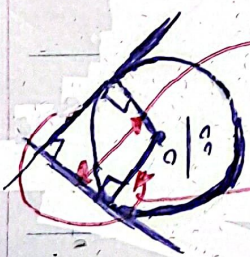
$$\Rightarrow r0 = x^r + y^r \Rightarrow r0 = x^r + \frac{9x^r}{17} \Rightarrow r0 = \frac{r0x^r}{17}$$

$$m' = \frac{r}{r}, m = \frac{-r}{r} = \frac{-y}{x} \Rightarrow \frac{-rx}{r} = y \Rightarrow 17 = x$$

$$\begin{cases} x = x \\ y = y \end{cases}$$

$$\begin{cases} L': \frac{r}{r}x + \frac{r0}{r} = y \Rightarrow \frac{r}{r}x + \frac{r0}{r} = \frac{-r}{r}x - \frac{r0}{r} \\ L: \frac{-r}{r}x - \frac{r0}{r} = y \Rightarrow 17x + 170 = -9x - 170 \end{cases}$$

$$r0x = -170 \Rightarrow x = -17 \left. \begin{matrix} x, y = 170 \\ y = -170 \end{matrix} \right\}$$



نسب خط m و m'

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