

$$y = -\frac{1}{r}x + b \stackrel{m=-r}{\Rightarrow} -r + b = m$$

$$\stackrel{m=-r}{\Rightarrow} 1 + b = k$$

$$A, B \rightarrow \sqrt{(k-m)^2 + r^2} = \sqrt{(1+b+r-b)^2 + r^2} = \sqrt{r^2} = r$$

$$S_{\square} = (AB)^2 = (\sqrt{r^2})^2 = r^2$$

$(-1, 8)$ $(-1, 1, 4, 2)$ $AB \rightarrow -\frac{r}{k}$ $BC, AD \Rightarrow \frac{r}{k}$
 (x, y) $D(x, y)$ $x - m + 3 \leq n \rightarrow 2n \leq 3 \sim n = 1/0$

$$DC \sim 1 - y - r = \frac{r - y}{r + m} \rightarrow \frac{r - y}{r + m} = \frac{r - y}{r + m} \rightarrow 1 - y - r = \frac{r - y}{r + m} \rightarrow 1 - y - r = \frac{r - y}{r + m}$$

$$AC \sim \sqrt{\left(\frac{r - y}{r + m}\right)^2 + \left(\frac{r - y}{r + m}\right)^2} = \sqrt{\frac{2(r - y)^2}{(r + m)^2}} = \frac{\sqrt{2}(r - y)}{r + m}$$

$$\frac{r - y}{r + m} = \frac{r - y}{r + m} = \frac{r - y}{r + m} \rightarrow -rm = \sqrt{r^2(m^2 - 1)} \rightarrow -rm = \sqrt{r^2 m^2 - r^2}$$

$$\rightarrow \sqrt{r^2 m^2 + 4m} - \sqrt{r^2} = \frac{1}{\sqrt{r^2}} m^2 + \frac{r}{\sqrt{r^2}} m - 1 = 0 \rightarrow \frac{r}{\sqrt{r^2}} \pm \sqrt{\frac{r^2}{r^2} + 4}$$

$$\rightarrow m = \frac{-r}{\sqrt{r^2}} \pm \frac{r}{\sqrt{r^2}} \rightarrow \frac{r}{\sqrt{r^2}} = \frac{1}{\sqrt{r^2}} \rightarrow \frac{r}{\sqrt{r^2}} = \frac{1}{\sqrt{r^2}} \rightarrow \frac{r}{\sqrt{r^2}} = \frac{1}{\sqrt{r^2}}$$

$$\rightarrow BC \Rightarrow \frac{11 - r}{r - r} = r \sim 2n - r = y$$

$$AH \rightarrow A(1, 9) \rightarrow \frac{|r + (1)(9) - r|}{\sqrt{r^2}} = \frac{1}{\sqrt{r^2}} = \sqrt{r^2}$$

$$BC \rightarrow ry - rx + 19 \leq \rightarrow ry - rx + 19 \leq$$

$$AB \rightarrow y + rx - r \leq \rightarrow -ry - rx + 19 \leq$$

$$-11n \leq -19 \rightarrow n \leq 1 \sim y = 1 \sim (3, 1)$$

$$AC: ry - rx - 19 \leq, (3, 1) \rightarrow \frac{|-r(3) + r(1) - 19|}{\sqrt{r^2 + r^2}} = \frac{r}{a} \sqrt{r^2 + r^2}$$

$$y = an + b \quad \begin{matrix} n = -\frac{r}{q} \\ y = -\frac{r}{q} \end{matrix} \quad -\frac{r}{q} \text{ as } q \rightarrow a = -1 \Rightarrow y = -1n - 4$$

$$\text{for } x=0 \rightarrow y=n \rightarrow n = -1n - 4 \rightarrow 2n = -4 \rightarrow n = \frac{-4}{2} = -\frac{r}{q}$$

$$\frac{r}{q} \sqrt{\frac{r}{q} + \frac{r}{q}} = n = \frac{\sqrt{1}}{1} = \frac{r\sqrt{r}}{r}$$

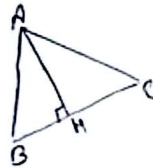
$$y = an + 1 \quad \text{as } n = a-1 \rightarrow \frac{1}{a} = a \rightarrow ar = 1 \rightarrow a = \frac{1}{r}$$

$$\rightarrow y = n+1 \quad \text{as } \frac{|1+1|}{\sqrt{1+1}} = \frac{\sqrt{2}}{1} \quad / \quad \text{as } \frac{r}{r} + n^r = r_0 = \frac{0}{r}$$

$$n^r = \frac{r}{r} \rightarrow n = \frac{\sqrt{r}}{r} \quad \rightarrow \quad \frac{\sqrt{r}}{r} \times \frac{\sqrt{r}}{r} = \frac{r}{r^2} = \frac{1}{r}$$

$$A(r, 0) \quad n = \frac{r}{r} = 1 \quad \rightarrow \quad AH = \frac{|1(r) + (-1)(0) - 1|}{\sqrt{1+1}} = \frac{r}{\sqrt{2}} = \frac{r\sqrt{2}}{2}$$

$$S = \frac{r\sqrt{2}}{2} \times \frac{r\sqrt{2}}{2} = \frac{r^2}{2} = 1/2$$

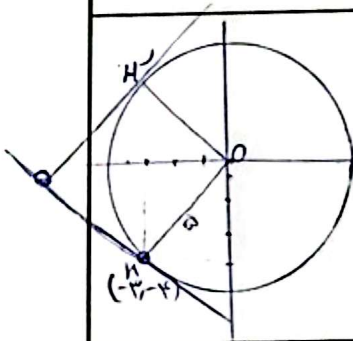


$$BC \Rightarrow 1 - \frac{1}{r} = \frac{1}{r} \Rightarrow BC^r \rightarrow BC = \frac{2}{r}$$

$$\frac{a-b}{-\frac{r}{q} - (-\frac{r}{q})} = \sqrt{r} \rightarrow a-b = \frac{\sqrt{r}}{q}$$

$$\sqrt{(a-b)^2 + (-\frac{1}{q})^2} = \sqrt{\frac{r}{r^2q} + \frac{1}{r^2q}} = \frac{r}{r^2q} = \frac{1}{r}$$

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



$$OH \rightarrow \sqrt{(\cdot + r)^2 + (\cdot + r)^2} = \Delta$$

$$OH = OH' = \Delta$$

$$\text{as } OH \sim -\frac{r}{r}n - \frac{r}{r} = y$$

$$OH' \sim \frac{r}{r}n + \frac{r}{r} = y$$

$$\rightarrow \dots \rightarrow (-r) \rightarrow -\sqrt{x-1} = \sqrt{r}$$