

Date:

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$$m_{AB} = \frac{-q-1}{r-r} = \frac{-1r}{r} = -1 \rightarrow m = \frac{1}{r}$$

$$M \left| \begin{array}{l} \frac{r+r}{r} \leq r \\ \frac{r-r}{r} \leq 1 \end{array} \right.$$

$$\rightarrow y-1 = \frac{1}{r}(n-r) \rightarrow y = \frac{1}{r}n + \frac{r}{r}$$

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

$$y-r = \frac{-r}{r}(n+1) \rightarrow y = \frac{-r}{r}n + \frac{r}{r}$$

$$y + \frac{r}{r}n - \frac{r}{r} = 0 \xrightarrow{\text{Rajab}} \frac{|1+r-\frac{r}{r}|}{\sqrt{1+\frac{r}{r}}} = \frac{\frac{r}{r}}{\frac{r}{r}} \leq r$$

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

$$d-r = r$$

$$y-n-v \leq 0$$

$$y - \frac{r}{r}n - 1 \leq 0 \quad \frac{r}{r} \leq 1 \rightarrow \textcircled{a=y}$$

$$r = \frac{|-v+1|}{\sqrt{r+1}} \rightarrow r = \frac{rv}{r(r)} \Rightarrow S = \pi r^2 = \pi \left(\frac{rv}{r(r)}\right)^2 = \frac{q}{\omega} \pi \approx \frac{rv}{\omega}$$

$$M \left| \begin{array}{l} \frac{r+r}{r} \leq r \\ \frac{r+1}{r} \leq r \end{array} \right.$$

$$m_{AB} = \frac{r-1}{r-r} = \frac{-r}{r} = -1 \rightarrow n \leq 1 \quad y+r \leq 1(n+1) \rightarrow \textcircled{y = n-r}$$

$$\downarrow y-r = -1(n-r) \rightarrow \textcircled{y = n+r} \Rightarrow n+r \leq n-r$$

$$M \left| \begin{array}{l} \sqrt{\left(r-\frac{r}{r}\right)^2 + \left(r-\frac{r}{r}\right)^2} = \frac{r}{r} \end{array} \right.$$

$$\begin{array}{c} n = \frac{r}{r} \\ \downarrow \\ n = \frac{r}{r} \\ \downarrow \\ y = \frac{r}{r} \end{array}$$

Elipon

Date:

Sub:

$$\frac{r - rm}{\omega - m} \times \frac{m+1}{rm - r} = -1 \rightarrow (rm - r)(m+1) = -(m-1)(rm - r) \quad (d)$$

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

$$\omega m^2 - rm + 1$$

$$\frac{1}{\omega} = \frac{r + 1}{rm}$$

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m/ω = 1/r

$$A \Rightarrow -\frac{1}{r}n + \frac{r}{r} = rm - 1 \rightarrow n \leq 1$$

$$y \leq 1$$

$$B \Rightarrow rm - y = r - y \rightarrow y \leq 1$$

$$u \leq \omega$$

$$C \Rightarrow -n + r = rm - 1 \rightarrow n \leq \frac{r-1}{r}$$

$$y \leq \frac{r-1}{r}$$

$$\left. \begin{array}{l} \frac{r-1}{r} \leq \frac{1}{r} \\ \frac{r-1}{r} \leq \frac{r}{r} \end{array} \right\} \rightarrow m \left| \begin{array}{l} \frac{r-1}{r} \leq \frac{1}{r} \\ \frac{r-1}{r} \leq \frac{r}{r} \end{array} \right.$$

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

$$AH = \frac{|1 + 1 - r|}{\sqrt{r}} \leq \sqrt{r}$$

$$\frac{\omega \sqrt{r}}{r} \leq \frac{d}{r^2}$$

$$y = -\frac{1}{r}n + b \rightarrow y + \frac{1}{r}n - b \leq 0$$

$$\sqrt{\omega} \leq \frac{|-b|}{\frac{\omega}{r}} \rightarrow b \leq \pm \omega$$

$$\left. \begin{array}{l} |AO| \leq \omega \\ |AB| \leq 1 \end{array} \right\} \rightarrow \sqrt{1 + \omega^2} \leq \omega \sqrt{d}$$

$$(1-m)r + r = \frac{rm + rm}{m} \rightarrow \frac{r}{r}$$

$$r - 1 \leq -r$$

$$\begin{array}{c} y \leq 0 \\ y \leq 0 \end{array} \left| \begin{array}{c} \frac{r}{m-1} \\ 0 \\ -\frac{m}{r} \\ 0 \end{array} \right.$$

$$\Rightarrow \left| \frac{r}{m-1} + \frac{m}{r} \right| \leq \frac{1}{r} \leq \frac{d}{r}$$

$$\frac{r}{m-1} + \frac{m}{r} \leq \frac{d}{r} \rightarrow rm^2 - 4m + 9 \leq 0 \rightarrow m \leq r$$

$$\frac{r}{m-1} + \frac{m}{r} \leq \frac{d}{r} \rightarrow rm^2 + (rm - 1) \leq 0$$

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$$\Rightarrow y \leq 12.9$$

$$12 + 10 = 10$$