

$$m \leq \frac{m-k}{k-(-k)} \leq \frac{m-k}{4} \leq -\frac{1}{4} \Rightarrow m-k \leq -1 \Rightarrow y \Rightarrow |m-k| \leq 1$$

$$AB \leq \sqrt{(m-k)^2 + (k-y)^2} \leq \sqrt{4^2 + 1^2} \leq 5 \Rightarrow 5 \leq 5 \leq 5$$

$$AB \leq \sqrt{(k)^2 + (k)^2} \leq 5$$

$$m_{AB} = m_{CP} \leq -\frac{1}{4} \leq \frac{1}{4} \Rightarrow -1 \leq m \leq -\frac{1}{4} \Rightarrow m \leq -\frac{1}{4}$$

$$C \left| \frac{m}{y} \right|, D \left| \frac{-k}{y+m} \right|$$

$$m_{BC} = m_{CP} \leq -1 \Rightarrow \frac{1}{4} \leq \frac{y-1}{2k} \Rightarrow 1-5k \leq$$

$$\Rightarrow C \left| \frac{m}{-1} \right|, D \left| \frac{-k}{1} \right|$$

$$\Rightarrow BC \leq \sqrt{\left(\frac{m}{-1}\right)^2 + (-k)^2} \leq \left(\frac{5}{4}\right)$$

$$b_{\text{مجموع}} = \frac{1}{4} + \frac{1}{4} = \frac{1}{2}$$

$$y = \frac{-m}{m^2-1} \Rightarrow \frac{1}{m^2-1} \leq \sqrt{m} \Rightarrow \sqrt{m} \leq \sqrt{m^2+1} - \sqrt{m}$$

$$|m-m_1| \leq \sqrt{5^2-4^2} \leq \frac{3}{2} \sqrt{m}$$

$$BC = \left| \frac{m}{1} \right|, \left| \frac{y}{1} \right| \Rightarrow m \leq 1 \Rightarrow y \leq 1-m$$

$$y-m \leq 1 \Rightarrow \frac{AD}{\sqrt{2}} \leq \frac{|9-m+1|}{\sqrt{2}} \leq \frac{1}{\sqrt{2}} \leq \sqrt{2}$$

$$-m+1 \leq \frac{1}{\sqrt{2}} \Rightarrow m \leq 1, y \leq 1$$

$$BD \leq \frac{|9-m-1|}{\sqrt{2}} \leq \frac{8}{\sqrt{2}} \leq 4$$

$$\frac{m}{-1} + \frac{y}{-1} \leq 1 \Rightarrow -m - \frac{1}{2}y \leq \frac{1}{2} \Rightarrow -4m - \frac{1}{2}y \leq 1$$

$$-4m \leq \frac{1}{2} \Rightarrow m \leq -\frac{1}{8}, y \leq -\frac{1}{4}$$

$$y \leq a + b$$

$$y \leq \frac{1}{q} n + \frac{a-1}{q} \quad \left\} \begin{array}{l} \text{تسویه} \\ \Rightarrow \end{array} \right.$$

$$a \leq \frac{1}{q} \Rightarrow a' \leq 1 \Rightarrow a \leq 1$$

(V)

$$a \leq \begin{cases} y \leq n+1 \\ y \leq n \end{cases}$$

$$y \leq -n+1$$

$$y \leq -n+1$$

نقطه (1,0) و (0,1) را در نظر بگیرید

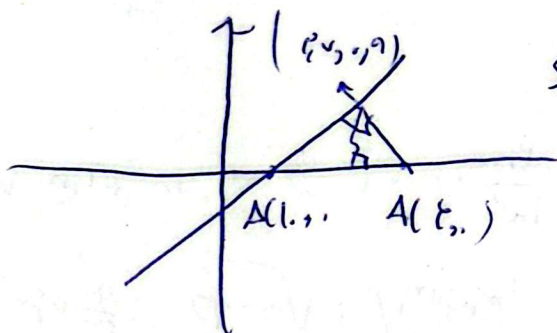
$$\left. \begin{array}{l} y - n+1 \\ y - n \end{array} \right\} \Rightarrow \frac{|1-0|}{\sqrt{1}} = \frac{\sqrt{1}}{1}$$

$$\sqrt{n^2 + \frac{1}{p}} = \sqrt{\frac{n^2 p + 1}{p}} = \frac{\sqrt{n^2 p + 1}}{\sqrt{p}}$$

$$\frac{\sqrt{n^2 p + 1}}{\sqrt{p}} \leq \frac{\sqrt{p}}{p} \Rightarrow (n^2 p + 1) \leq 1 \Rightarrow n^2 p \leq 0 \Rightarrow n = 0$$

$$y \leq \frac{1}{p} n - \frac{1}{p} \quad \text{و} \quad y \leq -n+1 \quad \Rightarrow \quad n \leq 1 \quad \text{و} \quad y \leq 0$$

$$-n+1 \leq \frac{1}{p} n - \frac{1}{p} \Rightarrow n \leq 1, \quad \forall \Rightarrow y \leq 0$$

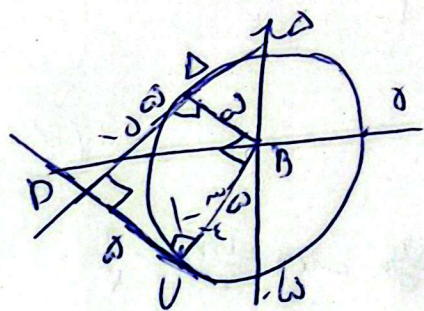


$$s = \frac{1}{p} \frac{1}{q} \leq 1 \quad \text{و} \quad s \leq 1$$

$$y = \sqrt{p} n \leq b$$

$$\left. \begin{array}{l} b + \frac{\sqrt{p}}{p} \leq c \\ a + \frac{\sqrt{p}}{p} \leq c \end{array} \right\} \Rightarrow |a-b| \leq \frac{\sqrt{p}}{p}$$

$$\text{مثال: } \sqrt{\left(\frac{1}{q}\right)^2 + \frac{p}{q^2}} = \frac{1}{q} \quad \text{و} \quad \frac{1}{q} \leq \frac{\sqrt{p}}{p}$$



$$BC \leq y \leq \frac{1}{p} n \quad \Delta B \leq y \leq -\frac{1}{p} n$$

$$DC \leq y \leq -\frac{1}{p} n - \frac{1}{p} \quad \text{و} \quad \Delta C \leq y \leq -\frac{1}{p} n - \frac{1}{p}$$

$$A \left(n - \frac{1}{p} n \right) \Rightarrow \left(n - \frac{1}{p} n \right)^2 + \left(\frac{1}{p} n - \frac{1}{p} \right)^2 \leq 1$$

$$\Rightarrow n \leq \frac{1}{p} \quad \text{و} \quad n \leq \frac{1}{p}$$

$$\Rightarrow A(-\frac{1}{p}, 1) \quad AD: y \leq \frac{1}{p} n + b \quad \text{و} \quad AD: y \leq \frac{1}{p} n + \frac{1}{p}$$

$$\left\{ \begin{array}{l} y - n \leq 1 \\ y + n \leq -1 \\ y \leq 1, \quad n \leq -1 \end{array} \right. \Rightarrow y \leq 1$$