

1 خطای رجبی، باز هم فرض A: نصف ۱۲

2 (۱) M وسط AB قرار دارد: $M(\frac{2+\varepsilon}{2}, \frac{1-\varepsilon}{2})$

3 خطای نیز تقاطع $(3, -1)$ از آنجا که $\frac{1}{\sqrt{2}}$ است

$$y+1 \leq \frac{1}{\sqrt{2}}(x-3) \rightarrow y \leq \frac{x}{\sqrt{2}} - \frac{1}{\sqrt{2}}$$

4 BC: $\sqrt{9+14} \leq 5$ / BC: $\frac{y}{x} = \frac{-5}{3}$ (۲)

$$\Rightarrow y-3 \leq -\frac{5}{3}(x+1) \rightarrow y \leq -\frac{5x}{3} + \frac{5}{3}$$

5 AH: $\frac{y}{x} = \frac{3}{4}$ (تقریباً موازی BC)

$$y-1 \leq \frac{3}{4}(x-3) \rightarrow y \leq \frac{3x}{4} - \frac{5}{4}$$

$$\text{مستطیل H: } -\frac{2x}{3} + \frac{5}{3} \leq \frac{3x}{4} - \frac{5}{4} \rightarrow \frac{5-5x}{3} \leq \frac{3x-5}{4}$$

$$H \text{ تقاطع: } 4(5-5x) \leq 3(3x-5) \rightarrow 20-20x \leq 9x-15$$

$$AH \text{ خط: } \frac{3}{4}(\frac{y}{5}) - \frac{5}{4} \leq -\frac{1}{5} \quad x \leq \frac{y}{5} \quad 20 \leq 20x \leq 25$$

$$\Rightarrow H(\frac{y}{5}, -\frac{1}{5}) \Rightarrow AH \text{ طول: } \sqrt{\frac{y^2}{25} + \frac{1}{25}} \leq (2)$$

$$\rightarrow BC-AH \leq 5-2 \leq 3$$

$$2y - \frac{y^2}{25} \leq 2 \quad \frac{-a}{-1} \leq \frac{\varepsilon}{1} \rightarrow a \leq 2: \text{دفعه اولی اندیس}$$

$$2y - x \leq \sqrt{x^2 + \varepsilon^2} \rightarrow 2y - 1 \leq \sqrt{1 + \varepsilon^2}$$

$$\text{دفعه دومی: } \frac{14-2}{\sqrt{14}} \leq \frac{4\sqrt{5}}{5} \rightarrow 2 \leq \frac{4\sqrt{5}}{5}$$

$$5 \leq x \leq 2 \leq x \leq (\frac{4\sqrt{5}}{5})^2 \leq \frac{4}{5} x$$



$$1 \quad AB \leq \sqrt{r+r} \leq r\sqrt{2}, \text{ since } M \Rightarrow BM \leq r \quad (1)$$

$$3 \quad BH^2 \leq BC^2 - CH^2 \quad r^2 - r^2 \omega^2 \leq r^2 \omega^2 \Rightarrow BH \leq \frac{1}{\sqrt{2}} \cdot \frac{r}{\sqrt{2}} \quad (2)$$

$$5 \quad BC = \sqrt{2a+1}r, \sqrt{r^2}, CH = \frac{a}{r}$$

$$7 \quad AB: m \leq \frac{r}{-r} \leq -1 \Rightarrow y-1 \leq -1(2-\varepsilon) \Rightarrow y \leq -2+a \Rightarrow y+2 \leq a.$$

$$8 \quad AB \text{ is } \leq \frac{1-1-\varepsilon-a}{\sqrt{1+1}} \leq \frac{1-1}{\sqrt{2}} \leq \frac{a}{r}$$

$$10 \quad (1), (2): r \leq \frac{r}{r} \leq \frac{r}{r} \leq HM$$

$$12 \quad (m+1)a+1 \leq (r_m-\varepsilon)y \quad m \leq \frac{-1}{m'}$$

$$13 \quad -(r_m-r)a+y \geq (a-m)y \Rightarrow \frac{m+1}{r_m-\varepsilon} \leq \frac{a-m}{r_m-r}$$

$$15 \quad (m+1)(r_m-r) \leq (r_m-\varepsilon)(a-m)$$

$$16 \quad r_m^2 + m - r \leq r_m^2 + 1 \varepsilon m - r \Rightarrow am^2 - 1r_m + 1$$

$$17 \quad \Delta \leq \dots$$

$$19 \quad \dots \quad (4)$$

$$20 \quad A \quad \dots \quad (1,1)$$

$$21 \quad AH \leq \frac{1+1-\varepsilon}{\sqrt{1+1}} \leq \frac{r}{\sqrt{2}} \leq \sqrt{r}$$



$$B \text{ سید ابرین سینه} : -\frac{x}{2} + \frac{15}{2}x - 2 + \varepsilon \xrightarrow{\Delta^2} -x + 15x - 2x + 1 \quad \text{ادامه ی}$$

$$\rightarrow x \text{ و } \omega, y \text{ و } -1$$

$$C \sim : 2x - 15x - 2 + \varepsilon \rightarrow 2x \text{ و } \Delta \rightarrow x \text{ و } \omega/c, y \text{ و } 1/c$$

$$B : | \omega, C | \frac{\omega/c}{1/c} \rightarrow M\left(\frac{10}{3}, \frac{4}{3}\right)$$

$$AM \text{ د } \sqrt{\frac{49}{9} + \frac{1}{9}} \text{ و } \frac{\Delta \sqrt{2}}{3} \rightarrow \frac{AM}{AH} \text{ و } \frac{\Delta \sqrt{2}/c}{\sqrt{2}} \text{ و } \frac{\omega}{3}$$

$$y \text{ و } ax + b \rightarrow -1/2 x + b = y \text{ د } \frac{|b|}{\sqrt{1/4 + 1}} \text{ و } \frac{|b|}{\sqrt{5/4}} \text{ و } \sqrt{2} \rightarrow |b| \text{ و } \omega \quad (1)$$

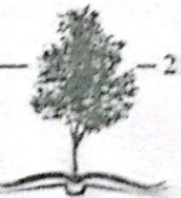
$\left(\frac{0}{1}, \frac{b}{1} \right) \star$
 عرض در سوا

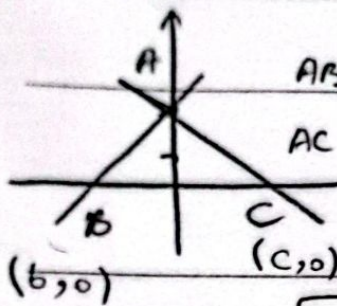
$$-1/2 x + b \xrightarrow{(a,0)} -1/2 a + b \text{ و } \rightarrow b \text{ و } 1/2 a \star = \gamma |a| \text{ و } 1.$$

در حضور دایمتر a

$$AB \text{ و } \sqrt{1 \dots + 2\omega} \text{ و } \omega \sqrt{\omega}$$

Genobar





$$AB: my - \varepsilon x \leq r \rightarrow y \leq \frac{r}{m} x + \frac{\varepsilon}{m}$$

$$AC: y + m'x \leq r \rightarrow y \leq (1-m')x + r$$

مردار از نقطه $(0, \frac{\varepsilon}{m})$ و $(\frac{r}{1-m'}, r)$ می‌گذرد

$$\sqrt{(b-c)^2} \leq |b-c| \leq \frac{\omega}{r} \quad *$$

$$B \text{ نسبت به } AB: \frac{\varepsilon}{m} x + \frac{\varepsilon}{m} \leq r \rightarrow x \leq \frac{r-m}{\varepsilon} \rightarrow y \leq \frac{r-m}{\varepsilon} \quad B \left| \frac{-m}{r} \right.$$

$$C \text{ نسبت به } AC: (1-m')x + r \leq r \rightarrow x \leq \frac{r}{m-1} \rightarrow y \leq \frac{r}{m-1} \quad C \left| \frac{r}{m-1} \right.$$

$$* \rightarrow \left| \frac{-m}{r} - \frac{r}{m-1} \right| \leq \left| \frac{-m^2+m-\varepsilon}{rm-\varepsilon} \right| \leq \frac{\omega}{r}$$

$$①: \frac{-m^2+m-\varepsilon}{r(m-1)} \leq \frac{\omega}{r} \rightarrow -m^2+m-\varepsilon \leq \omega(m-1)$$

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

$$-r + \sqrt{a}, -r - \sqrt{a} \rightarrow (-1) \leq \frac{-r}{\varepsilon}$$

$$②: \frac{+m^2-m+\varepsilon}{r(m-1)} \leq \frac{\omega}{r} \rightarrow m^2-m+\varepsilon \leq \omega(m-1)$$

$$m^2 - \gamma m + \eta \leq (m-1)^2 \rightarrow m \leq \gamma$$

نقطه (γ, γ) را در نظر بگیرید

$$\gamma \leq \gamma$$

$$\gamma \leq r x - \varepsilon \rightarrow r x - \gamma \leq r$$

$$\gamma \leq r x + \varepsilon \rightarrow r x - \gamma \leq -\varepsilon$$

$$ax + by \leq \frac{c+c'}{r} \rightarrow r x - \gamma \leq \frac{r-c}{r} \rightarrow \frac{r-c}{r} \leq \frac{r-c}{r}$$

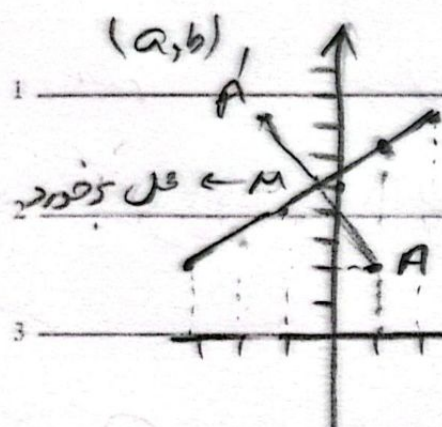
$$\Rightarrow \gamma \leq r x - c$$

$$c \leq -\gamma$$

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Am s - 1 (قریب و بعد میں صم)

(1.

$$\rightarrow y - r s - 1(n-1) \rightarrow y s - a + r$$

$$AA' \perp M \rightarrow M\left(\frac{a+r}{2}, \frac{b+r}{2}\right) \text{ s } (-1, \epsilon)$$

$$\Rightarrow a s - r \quad b s \quad y$$

$$M \text{ near } \rightarrow -a + r \text{ s } a + a \rightarrow a s - 1, y \text{ s } \epsilon$$

$$\rightarrow A'(-c, y) \rightarrow r b - a \text{ s } 1r - (-r) \text{ s } 1w$$