

$$\frac{m-k}{y} = -\frac{1}{y} \Rightarrow m-k = -2$$

$$\overline{AB} = \sqrt{(f+2)^2 + (k-k)^2} = \sqrt{4^2 + 0^2} = \sqrt{16} \quad (\sqrt{16})' = \textcircled{4}$$

$$AB \perp BC \quad AB = (f-(-1), 1-f) = (f+1, 1-f)$$

$$AD \parallel CD \quad BC = (x-f, y-1) \quad CD = (-1-x) - (x), (f)-(y) = (-1-2x, f-y)$$

$$f(x-f) + (-2x)(y-1) = 0$$

$$\textcircled{\frac{1}{2}} \begin{cases} AB = 0 \\ BC = \frac{a}{f} \end{cases}$$

$$\frac{f}{-1-2x} = \frac{-2}{f-y} \Rightarrow x = \frac{f}{2}, y = -1$$

$$(m^2-1)y + 2mx = r \quad y = \frac{-2m}{m^2-1}x + \frac{r}{m^2-1} \quad k = -\frac{2m}{m^2-1} = \sqrt{2} \quad \Delta x = \frac{\sqrt{4}}{101} \quad \frac{f}{\sqrt{r}} = \textcircled{\frac{f\sqrt{r}}{r}}$$

$$m = \frac{11-2}{v-2} = 2 \quad BC = y-2 = 2(x-2) \Rightarrow y = 2x-2 \quad \frac{|2(1)-1-2|}{\sqrt{2^2+(-1)^2}} = \frac{|-1|}{\sqrt{5}} = \frac{1}{\sqrt{5}} = \textcircled{\frac{1}{\sqrt{5}}}$$

$$AB = y+2x = v \\ AC = 2y-2x = 1v \\ DC = 2y-vx = -1v$$

$$y = v-2x$$

$$AC > AB \text{ ہے تو}$$

$$\Rightarrow \begin{cases} f(v-2x)-2x = 1v \Rightarrow x=1 \\ y=0 \end{cases} A \Rightarrow C = \begin{cases} f(v-2x)-vx = -1v \Rightarrow x=2 \\ y=1 \end{cases} B$$

$$\Rightarrow C = \begin{cases} 0 \\ A \end{cases}$$

$$\frac{|f(1)-2(2)-1v|}{\sqrt{f^2+(-2)^2}} = \textcircled{\frac{2f}{5}}$$

$$m = \frac{-2-0}{-0-2} = -1$$

$$\begin{cases} y = -1x-2 \\ y = x \end{cases}$$

$$\begin{cases} x = -1x-2 \Rightarrow 2x = -2 \Rightarrow x = -1 \\ y = -1 \end{cases} \Rightarrow \frac{x}{f} = C$$

$$d = \frac{y\sqrt{r}}{f} = \textcircled{\frac{y\sqrt{r}}{f}}$$

$$y-x=1, y-ax=1-a \Rightarrow 1-a=1 \Rightarrow a=1 \quad \frac{|c-c'|}{\sqrt{a^2+b^2}} = \frac{|1-(0)|}{\sqrt{(1)^2+(-1)^2}} = \frac{1}{\sqrt{2}} \\ s^2 + \left(\frac{1}{\sqrt{2}}\right)^2 = 25 \Rightarrow s = \frac{5}{\sqrt{2}} \quad A = s \cdot h = \frac{5}{\sqrt{2}} \times \frac{1}{\sqrt{2}} = \textcircled{\frac{5}{2}}$$

$$A \text{ و } B \text{ کے درمیان } \Rightarrow \frac{|f-1|}{\sqrt{f^2+(-1)^2}} = \frac{1}{\sqrt{10}} \quad \text{Max } s \text{ کی قدر پائی جائے} \quad \textcircled{s_{max} = \frac{y\sqrt{r}}{f}}$$

$$P(-\frac{1}{f}, 1) \quad Q(-\frac{1}{f}, b) \quad \frac{b-a}{-\frac{1}{f} + \frac{1}{f}} = \frac{b-a}{\frac{1}{f}} = \sqrt{2} \Rightarrow b-a = \frac{\sqrt{2}}{f} \quad \overline{PO} = \sqrt{\left(\frac{1}{f}\right)^2 + \left(\frac{\sqrt{2}}{f}\right)^2} = \frac{1}{f} \quad \textcircled{x = \frac{1}{f}\sqrt{2} = \frac{\sqrt{2}}{f}}$$

$$r = \sqrt{6+16} = 5 \Rightarrow x^2 + y^2 = 25 \\ \text{شیب منحنی} = \frac{-f}{-p} = \frac{f}{r} \\ \text{شیب عمود} = -\frac{r}{f} \\ x^2 + y^2 = 25 \Rightarrow y = -\frac{f}{r}(x+3) \\ \frac{f}{r} = \text{شیب عمود} \Rightarrow y = \frac{f}{r}x + \frac{25}{r} \\ -vx-1 = \textcircled{v} \quad (-v, -1) = \text{نقطہ}$$