

$$A(-1, 1) \quad B(1, 1) \rightarrow \frac{m-1}{1+1} = -\frac{1}{1} \rightarrow m-1 = -1 \rightarrow m=0 \rightarrow \overline{AB} = \sqrt{\left(\frac{m-1}{1}\right)^2 + (1)^2} = \sqrt{2}$$

$$S_{ABCD} = \sqrt{2} \times \sqrt{2} = \boxed{2}$$

$$A(-1, 1) \quad B(1, 1) \quad C(m, y) \quad D(-1-y, y+1) \rightarrow m_{CD} = m_{AB} \rightarrow \frac{y}{-1-y-1} = \frac{1}{-1} \rightarrow y = -1$$

$$m_{AD} = m_{CB} \rightarrow \frac{y+1-1}{-1-y+1} = \frac{y-1}{y-1} \rightarrow y = -1$$

$$A(-1, 1) \quad D\left(-\frac{0}{1}, 1\right) \rightarrow \overline{AD} = \sqrt{\left(\frac{1-1}{1}\right)^2 + \left(1 - \frac{0}{1}\right)^2} = \frac{0}{1}$$

$$A(-1, 1) \quad B(1, 1) \rightarrow \overline{AB} = \sqrt{(1-1)^2 + (1-1)^2} = 0$$

$$\frac{0}{1} = \frac{0}{1} + \frac{0}{1} + \frac{0}{1} = \boxed{0}$$

$$r \tan \alpha + (m^2 - 1) \gamma = r \rightarrow \tan \alpha = m = \tan \gamma \cdot \sqrt{r} \rightarrow \frac{-r \tan \alpha}{m^2 - 1} = \sqrt{r}$$

$$\sqrt{r} m^2 - \sqrt{r} = -r \tan \alpha \rightarrow \alpha - \beta = \frac{\sqrt{r}}{|a|} = \frac{r}{\sqrt{r}} \times \frac{\sqrt{r}}{\sqrt{r}} = \boxed{\frac{r \sqrt{r}}{r}}$$

$$A(1, 4) \quad B(2, 3) \quad C(4, 11) \rightarrow m_{BC} = \frac{11-3}{4-2} = \frac{8}{2} = 4 \rightarrow y = 4x + b \rightarrow \begin{matrix} r = 4 + b \\ b = -r \\ y = 4x - r \end{matrix}$$

$$A \text{ noktası } BC \text{ doğrusu } = \frac{|ax_0 + by_0 + c|}{\sqrt{a^2 + b^2}} = \frac{|y - 4x + r|}{\sqrt{r^2 + 1}} = \frac{|4 - 2 + r|}{\sqrt{r}} = \frac{r}{\sqrt{r}} \times \frac{\sqrt{r}}{\sqrt{r}} = \boxed{r \sqrt{r}}$$

$$AB = y + 4x = 4 \quad AC = ry - 4x = 14 \quad BC = ry - 4x = -14$$

$$4 - 4x = \frac{14 - 14}{r} \rightarrow 14 - 4x = 14 - 14 \rightarrow x = 1, y = 1 \rightarrow B \left(\frac{r}{1} \right)$$

$$A \text{ noktası } BC \text{ doğrusu } = \frac{|ax_0 + by_0 + c|}{\sqrt{a^2 + b^2}} = \frac{|(4 - 4x - 14)|}{\sqrt{r^2 + 14}} = \frac{|14 - 4 - 14|}{\sqrt{r^2}} = \frac{r}{0} = r, r$$

$$\left| \frac{1}{-4} \right| \left| \frac{-r}{r} \right| \rightarrow m = \frac{4 - 2}{0 + \frac{r}{r}} = -1 \rightarrow y = -1x + b \rightarrow -4 = b \rightarrow y = -1x - 4$$

$$\left| \frac{1}{2} \right| \rightarrow y = -1x - 4 \rightarrow x = -1x - 4 \rightarrow 4x = -4 \rightarrow x = -\frac{1}{r}, y = \frac{-r}{r}$$

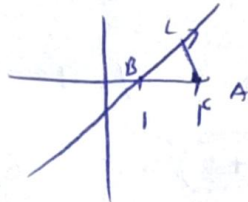
$$\frac{1}{r} = \left(\frac{r}{r}\right)^2 + \left(\frac{r}{r}\right)^2 = \frac{1}{r} \rightarrow \sqrt{\frac{1}{r}} = \boxed{\frac{r \sqrt{r}}{r}}$$

$$y - ay = 1 \quad ay - a = a - 1 \rightarrow \text{بعض } (1, y) \Rightarrow a = \frac{1}{a} \rightarrow a \leq 1 \rightarrow a \leq 1 \rightarrow y \leq a, y, a+1$$

$$\frac{\frac{y}{r}}{\frac{y}{r}} \cdot \frac{f-c}{\sqrt{a^2+b^2}} = \frac{1}{\sqrt{r}} = \frac{\sqrt{r}}{r} \rightarrow \text{PD} = \frac{y}{r} + a^2 \rightarrow a = \frac{\sqrt{r}}{r}$$

$$S = \frac{\sqrt{r}}{r} \times \frac{\sqrt{r}}{r} = \frac{r}{r} = 1 \text{ (10)}$$

$$A(1,0) \quad a - y \leq 1$$



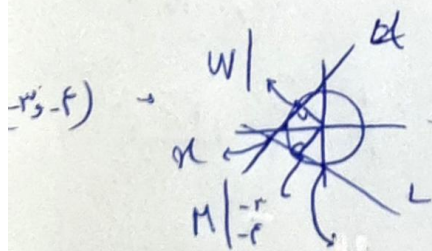
$$S_{\max} = \text{work} = AC = BC$$

$$A \text{ max } = \frac{|ax_0 + by_0 + c|}{\sqrt{a^2 + b^2}} = \frac{|f-1|}{\sqrt{1}} = \frac{r}{1} = \frac{r\sqrt{1}}{1}, \quad \overline{AB} = f-1 = r$$

$$r^2 = \left(\frac{r\sqrt{1}}{1}\right)^2 + BC^2 \Rightarrow BC^2 = \frac{1}{1} \Rightarrow BC = \frac{1}{\sqrt{1}} \rightarrow S_{\max} = \frac{1}{r} \times \frac{r\sqrt{1}}{1} \times \frac{1}{\sqrt{1}} = \frac{r\sqrt{1}}{r} = 1 \text{ (10)}$$

$$\left(\frac{-1}{r}, a\right) \left(\frac{-1}{r}, b\right) \rightarrow \frac{a-b}{\frac{-1}{r} + \frac{1}{r}} = \sqrt{r} \rightarrow b-a = \frac{\sqrt{r}}{4} \rightarrow \overline{AB} = \sqrt{\left(\frac{b-a}{\frac{1}{r}}\right)^2 + \left(\frac{\frac{-1}{r} + \frac{1}{r}}{\frac{1}{r}}\right)^2}$$

$$\frac{r}{4} + \frac{1}{r^4} = \frac{r}{4} + \frac{1}{4} = \frac{1}{4} \rightarrow \sqrt{\left(\frac{1}{r}\right)^2 + \left(\frac{1}{r}\right)^2} = \frac{1}{r} \times \sqrt{2} = \frac{\sqrt{2}}{r}$$



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$$\Rightarrow x_W = -r, y_W = r$$

$$m_L = -\frac{r}{f} \Rightarrow m_d = \frac{r}{f} \quad y_L = -\frac{r}{f} \Rightarrow -\frac{r}{f} = -\frac{r}{f}$$

$$d \rightarrow y = \frac{f}{r} x + 1 \rightarrow \begin{cases} y + \frac{f}{r} x = \frac{r}{f} \\ y - \frac{f}{r} x = \frac{r}{f} \end{cases} \Rightarrow \frac{r}{f} = \frac{-10}{11} \rightarrow a = -1, y = -1, -1+1 = 0$$