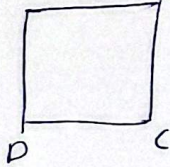


$A [-2, K] \quad B [\epsilon, M]$

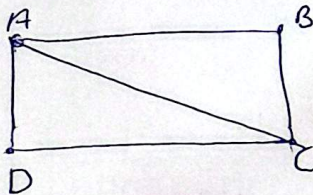


$AB \leadsto -\frac{1}{r} = \frac{M-K}{4} \leadsto -4 = 2M - 2K$

$M-K = -2$

$AB = \sqrt{(x_A - x_B)^2 + (y_A - y_B)^2} \leadsto \sqrt{\underbrace{(\epsilon + 2)^2}_{4} + \underbrace{(M-K)^2}_4} = \sqrt{\epsilon^2 + 4}$

$(2\sqrt{\epsilon}) \leadsto S = 2\sqrt{\epsilon} \times 2\sqrt{\epsilon} = \epsilon^2$



$A + C = D + B$

$-x - 1 + 2 = x - 1 \leadsto 2x = 2 \leadsto x = 1$

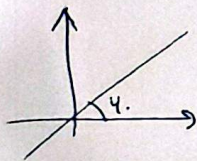
$y + 2 + 1 = y + 2$

$AB = CD = \sqrt{(x+1)^2 + (1-2)^2} = \Delta$

$AC^2 = AB^2 + DC^2 \leadsto (\sqrt{(x+1)^2 + (y-2)^2})^2 = x^2 + (y-1)^2 + 2\Delta^2$

$2Mx + (M^2 - 1)y = 2$

$y = \frac{-2M}{M^2 - 1} \quad x = \frac{2}{M^2 - 1}$

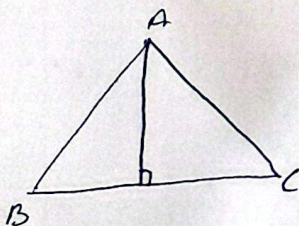


$\tan \alpha = \sqrt{2}$

$\frac{-2M}{M^2 - 1} = \sqrt{2}$

$\sqrt{2}M^2 - \sqrt{2} = -2M \leadsto \sqrt{2}M^2 + 2M - \sqrt{2} = 0$

$\frac{\sqrt{2}}{2} + \sqrt{2} = \frac{\sqrt{2} + 2\sqrt{2}}{2} = \frac{3\sqrt{2}}{2}$



$BC \leadsto \frac{11-2}{2-2} = \frac{1}{\epsilon} = 2$

$y = 2M - 2$
 $y - 2M + 2 = 0$

$AH = \frac{|9 - 2 + 2|}{\sqrt{1^2 + 2^2}} = \frac{1}{\sqrt{5}} = 2\sqrt{5}$

$AB = y + 2M = V$

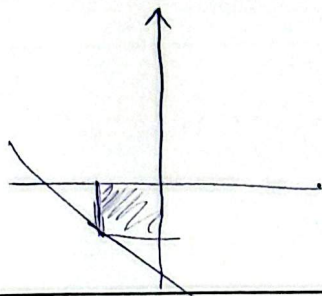
$AC = \epsilon y - 2M = W$

$BC = 2y - 2M = -19$

$AC = \frac{M-2}{2-1} = \frac{2}{\epsilon}$

$y = \frac{2}{\epsilon} \quad M = \frac{W}{\epsilon} \leadsto \epsilon y = 2 \quad \epsilon M = W$

$BH = \frac{|9 - 2 - W|}{\sqrt{1^2 + 2^2}} = \frac{2}{5} = 2/5$



$$\frac{-4}{\frac{r}{\sqrt{r}}} = -1 \quad y = -mx$$

$$m = -1 \cdot m - 4 \rightarrow 4m = -4$$

$$m = -\frac{r}{r}$$

$$\frac{\frac{r}{\sqrt{r}}}{r} = \frac{r}{r} \rightarrow \frac{1}{\sqrt{r}} = \frac{r}{r}$$

$$ay - m = a - 1$$

$$y - am = 1$$

$$\frac{a}{1} = \frac{-1}{-a} \rightarrow a^2 = 1 \rightarrow a = \pm 1$$

$$a = 1 \rightarrow \begin{cases} y - m = 1 \\ y - m - 1 = 0 \end{cases} \quad (b^2)$$

$$a = -1 \rightarrow \begin{cases} y + m - 1 = 0 \\ y + m - 1 = 0 \end{cases}$$

$$r - 1 - 1 = 0 \quad \checkmark$$

$$\frac{1}{(\sqrt{r})^2} + b^2 = r \rightarrow \frac{1}{r} + b^2 = r$$

$$b^2 = \frac{r}{\sqrt{r}}$$

$$ab = \frac{r}{\sqrt{r}} \times \frac{1}{\sqrt{r}} = \frac{r}{r} = 1$$

$$x_1 = AH \rightarrow \max S$$

$$AH = \frac{|r - 1 - 1|}{\sqrt{1+1}} = \frac{r}{\sqrt{2}} = AH$$

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

$$S = \frac{r}{\sqrt{r}} \times \frac{r}{\sqrt{r}} \times \frac{1}{r} = \frac{r}{r} = 1$$

$$m - cy = 1 \rightarrow m + y = a$$

$$r + 1 = a \rightarrow a = r + 1$$

$$\begin{cases} m - cy = 1 \\ m + y = r + 1 \end{cases} \rightarrow \begin{cases} m + y = r + 1 \\ m + y = r + 1 \end{cases}$$

$$y = r \rightarrow y = \frac{r}{r} \rightarrow m = \frac{r}{r}$$

$$\frac{a-b}{-\frac{1}{r} + \frac{1}{r}} = \sqrt{r} \rightarrow a - b = -\frac{\sqrt{r}}{r}$$

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

$$S = \left(\frac{1}{r}\right)^2 = \frac{1}{r^2}$$

$$S = \frac{a-b}{r} = \frac{1}{r}$$

$$a^2 = \frac{r}{r}$$

$$a = \frac{\sqrt{r}}{r}$$

$$OL = \sqrt{(r)^2 + (r)^2} = \sqrt{r^2} = r$$

$$OA = \frac{|r - 1 - 1|}{\sqrt{1+1}} = \frac{r}{\sqrt{2}} \quad |c| = r$$

$$\begin{cases} ry - cm = -vd \\ ry + c = -ca \end{cases} \rightarrow \begin{cases} ry - cm = -vd \\ 14y + 11m = 11 \end{cases}$$

$$y = \frac{r}{r}m + \frac{r}{r} \rightarrow -vd$$

$$ry - cm = -vd$$

$$\rightarrow my = -v$$

$$L: y = \frac{r}{r}m + k$$

$$OA = a \quad OL = \frac{r}{r}k = a \rightarrow k = \frac{ra}{r}$$

$$\frac{ra}{r} = \frac{-11vd}{r} \rightarrow y_B = -v \quad y_B = -1$$

$$-vx - 1 = v$$