

$$A(-1, k)$$

$$y - k = -\frac{1}{r}(x + 1) \rightarrow y = -\frac{1}{r}x + k - 1$$

$$B(5, m)$$

$$y - m = -\frac{1}{r}(x - 5) \rightarrow y = -\frac{1}{r}x + m + \frac{5}{r}$$

$$\left. \begin{array}{l} y - k = -\frac{1}{r}(x + 1) \rightarrow y = -\frac{1}{r}x + k - 1 \\ y - m = -\frac{1}{r}(x - 5) \rightarrow y = -\frac{1}{r}x + m + \frac{5}{r} \end{array} \right\} k - 1 = m + \frac{5}{r} \rightarrow k - m = \frac{5}{r} + 1$$

$$AB = \sqrt{(x_A - x_B)^2 + (y_A - y_B)^2} = \sqrt{r^2 + 9} = \sqrt{r^2 + 9} = r\sqrt{1 + \frac{9}{r^2}} = r\sqrt{\frac{r^2 + 9}{r^2}} = \sqrt{r^2 + 9}$$

$$S = (AB)^2 = r^2 + 9 = r^2 + 9$$

$$x_A + x_C = x_B + x_D \rightarrow -1 + x = r - 1 - x \rightarrow 2x = r - 1 \rightarrow x = \frac{r-1}{2}$$

$$m_{AB} \times m_{BC} = -1 \quad m_{AB} = \frac{r-1}{r-1} = 1 \quad m_{BC} = -1$$

$$m_{BC} = \frac{r}{r-1} = \frac{y-1}{\frac{r-1}{2}-r} = y-1 = \frac{r}{r-1} \times \frac{r-1}{2} = \frac{r}{2} \rightarrow y = 1 + \frac{r}{2}$$

$$A(-1, 1), B(5, 1), C(\frac{r}{2}, -1), D(-\frac{r}{2}, 1)$$

$$AB = \sqrt{r^2 + 0} = r \quad BC = \sqrt{r^2 + (\frac{r}{2})^2} = \frac{r\sqrt{5}}{2}$$

$$r(AB + BC) = r(1 + \frac{\sqrt{5}}{2}) = 10$$

$$\tan 45^\circ = 1$$

$$r(mr + (mr-1)y) = r \rightarrow (mr-1)y = r - rmm \rightarrow y = \frac{-rm}{mr-1}x + \frac{r}{mr-1}$$

$$\frac{-rm}{mr-1} = 1 = -rm = \sqrt{r^2 + 1} - \sqrt{r^2}$$

$$\sqrt{r^2 + 1} + rm = \sqrt{r^2}$$

$$\alpha - \beta = \frac{\sqrt{\Delta}}{|a|} = \frac{\sqrt{r^2 + 1 \times (r^2 + 1)}}{\sqrt{r^2}} = \frac{r}{r} \times \frac{\sqrt{r^2 + 1}}{r} = \frac{\sqrt{r^2 + 1}}{r}$$

$$AH = BC$$

$$m_{BC} = \frac{11-r}{r-r} = \frac{1}{r} = r$$

$$y - r = r(x - r)$$

$$y = rx - r \rightarrow BC = rx - y - r = 0$$

$$d = \frac{|ax + by + c|}{\sqrt{a^2 + b^2}} = \frac{|r - 9 - r|}{\sqrt{r^2 + 1}} = \frac{10}{\sqrt{r^2 + 1}} \times \frac{\sqrt{r^2 + 1}}{\sqrt{r^2 + 1}} = \frac{10}{\sqrt{r^2 + 1}}$$

$$AB = y + rm = r$$

$$BC = ry - rm = -19$$

$$x = \frac{-19 - 1r}{-r - r} = +r$$

$$y = \frac{-rm + r}{-r - r} = +1$$

$$AC \text{ is } \frac{|fy - rm - 19|}{\sqrt{r^2 + r^2}} = \frac{|1 + 9 - 19|}{\sqrt{2}} = \frac{9}{\sqrt{2}}$$



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$$a = -1 \longrightarrow y = -x + 2, y = -x + 1000$$

$$a = \sqrt{v_x^2 + v_y^2} = \left(\frac{v}{r}\right)^2 + v_x^2 = v^2$$

$$\frac{\sqrt{x}}{x} \times \frac{\sqrt{\sqrt{x}}}{x} = \frac{x}{x} = 1$$

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$$d = \frac{|f-1|}{\sqrt{1+g}} = \frac{5}{\sqrt{17}} = \frac{5\sqrt{17}}{17}$$

$$\frac{1}{r} n - \frac{1}{r} = -r_m + 1r = \frac{1}{r} n = \frac{r}{r}$$

$$z = v, v, y = 0, 2$$

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$$p/g - 0,9 = p/v$$

$$دُوری = \sqrt{(x_A - x_B)^2 + (y_A - y_B)^2}$$

$$-\frac{1}{5} - (-\frac{1}{5}) = \frac{1}{5}$$

$$b - a = \sqrt{2}$$

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$$e_{\text{eff}} = \frac{\sqrt{r}}{r}$$

$$\text{شعاع دایره} = \sqrt{r^2 + r^2} = r$$

$$m_{OA} = \frac{r}{r} \rightarrow m_L = -\frac{r}{r}$$

$$m_{L'} = \frac{r}{r}$$

$$OA = y = \frac{r}{r}x, L' = y = \frac{r}{r}x + C$$

$$L' \text{ از } OA \text{ موازی} = r = r \rightarrow \frac{C}{\sqrt{1 + (\frac{r}{r})^2}} = \frac{C}{\frac{r}{r}} = \frac{r}{r} = r$$

$$C = \frac{r}{r}$$

$$L' = y = \frac{r}{r}x + \frac{r}{r}$$

$$L = y + r = -\frac{r}{r}(x + r)$$

$$y = -\frac{r}{r}x - \frac{r}{r}$$

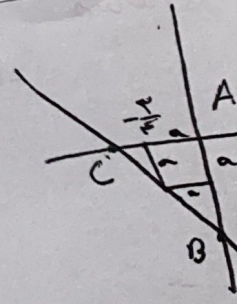
$$\left(\frac{r}{r}x_B + \frac{r}{r} = -\frac{r}{r}x_B - \frac{r}{r} \right) \times 12 \rightarrow 14x_B + 100 = -9x_B - 70 \rightarrow 23x_B = -170$$

$$x_B = -\frac{170}{23}$$

$$y_B = -\frac{r}{r}x_B - \frac{r}{r} = -1$$

$$x_B \times y_B = 1$$

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$$y = \frac{a}{a}$$

$$ay =$$

$$y =$$

$$a = 1$$