

$$\sqrt{r^2 x^2 + \frac{q}{r^2} - \frac{w}{r^2} x} + \sqrt{r^2 x^2 + r^2 q - 12x} = \frac{w}{r^2} \sqrt{r^2 q}$$

$$S_{\text{مستطیل}} = bc = \frac{\sqrt{p}}{2} \times \frac{\sqrt{p}}{2} = \left[\frac{p}{4} \right]$$

$$y - 0 = -1(x - 1) \Rightarrow y = -x + 1$$

$$AH = \frac{|F - \psi(\cdot) - 1|}{\sqrt{1}}$$

$$AB^T = AN^T + BH^T \rightarrow r^T = \left[\frac{r}{n} \right]^T + BH^T \rightarrow BH = \frac{q}{n}$$

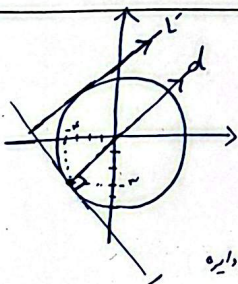
$$S_A = \frac{1}{r} AB \times CB = \frac{1}{r} \times \frac{r}{\sqrt{5}} \times \frac{r}{\sqrt{5}} = \boxed{\frac{r^2}{5}}$$

$$S = \frac{\mu}{\sqrt{f_1}} \times \frac{q}{\sqrt{f_2}} \times \frac{1}{r} = \frac{\mu v}{k}$$

$$CB = \sqrt{r^2 - \left(\frac{r}{Q}\right)^2} = \sqrt{\frac{F\omega - 1}{\omega}} = \frac{q}{\sqrt{\omega}}$$

$$\text{طول ضلع ربع} = \sqrt{(b-a)^2 + \left(-\frac{1}{a} - \left(-\frac{1}{b}\right)\right)^2} = \sqrt{\left(\frac{\sqrt{c}}{a}\right)^2 + \left(\frac{1}{a}\right)^2} = \sqrt{\frac{c+1}{a^2}} = \sqrt{\frac{1}{a}} = \frac{1}{\sqrt{a}}$$

$$\boxed{\text{طول قطر مربع} = \sqrt{2} \times \text{طول ضلع مربع} = \sqrt{2} \times \frac{1}{3} = \frac{\sqrt{2}}{3}}$$



$$L' = \text{line} : y = \frac{v}{r}x + b = \frac{v}{r}x + \frac{r\Delta}{r} \Rightarrow \frac{v}{r}x + \frac{r\Delta}{r} = -\frac{r}{v}x - \frac{r\Delta}{r} \Rightarrow x = -v$$

$$y = \frac{v}{r}(-v) - \frac{r\Delta}{r} = -1 \Rightarrow \boxed{xy = +v}$$

$$r_{\text{شعاع دایره}} = \sqrt{3^2 + 4^2} = 5$$

$$\Rightarrow |c| = \frac{|c' - c|}{\sqrt{a^2 + b^2}} = \frac{|b|}{\sqrt{\left(\frac{b}{a}\right)^2 + 1}} = \frac{|b|}{\frac{b}{a}} \Rightarrow |b| = \frac{25}{4} \Rightarrow b = \frac{25}{4}$$

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

$$OA = a \quad OL' = \frac{\mu}{a}k = a - k = \frac{a}{\mu}$$

$$\frac{P_d}{1r} u = \frac{-1V_0}{1r} \rightarrow u_B = -V \quad y_B = -1$$

$$-\sqrt{x-1} = V$$

$$\frac{K}{r}x + \frac{Kd}{r} = \frac{-K}{r}x - \frac{Kd}{r} \rightarrow x = -V, y = -1$$

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نام و نام خانوادگی شماره ۱۷ کلاس یازدهم دبیرستان

$a_{AB} = -\frac{1}{r} = \frac{m-k}{4-(k-r)} \Rightarrow m-k = -3$ $AB = \sqrt{(m-k)^2 + (4-(-r))^2} = \sqrt{(-3)^2 + 4^2} = \sqrt{25} = 5$ $S_{\triangle ABC} = AB \times AC = (5\sqrt{5})^2 = 25$	۱
$a_{AB} = a_{DC} \Rightarrow \frac{4-1}{-1-3} = \frac{y+3}{-1-x-3} \quad \frac{3}{-4} = \frac{y}{-1-2x} \quad -1-2x = -4 \quad x = \frac{3}{2} \Rightarrow C(\frac{3}{2}, y)$ $a_{BC} = -\frac{1}{a_{AB}} = \frac{r}{r} = \frac{y-1}{x-3} = \frac{y-1}{-\frac{3}{2}} \Rightarrow -4 = 3y-3 \Rightarrow y = -1$ $\Rightarrow A(-1, 4) / B(2, 1) / C(\frac{3}{2}, -1) / D(-\frac{5}{2}, 2)$ $AB = \sqrt{(4-1)^2 + (-1-2)^2} = \sqrt{3^2 + 4^2} = 5$ $BC = \sqrt{(1-(-1))^2 + (2-\frac{3}{2})^2} = \sqrt{4 + \frac{1}{4}} = \sqrt{\frac{17}{4}} = \frac{\sqrt{17}}{2} \Rightarrow \text{مساحت مستطیل} = 2 \times AB + 2 \times BC = 2 \times 5 + 2 \times \frac{\sqrt{17}}{2} = 10 + \sqrt{17}$	۲
$\alpha = \tan \theta = \sqrt{3} = \frac{-2m}{m^2-1} \quad y = \frac{-2m}{m^2-1} + \frac{3}{m^2-1}$ $\sqrt{3} m^2 - \sqrt{3} = -2m$ $\sqrt{3} m^2 + 2m - \sqrt{3} = 0 \quad \alpha - \beta = \frac{\sqrt{\Delta}}{ \alpha } = \frac{\sqrt{3^2 - 4(\sqrt{3})(-\sqrt{3})}}{\sqrt{3}} = \frac{\sqrt{12}}{\sqrt{3}} = \frac{2\sqrt{3}}{\sqrt{3}} = 2$	۳
BC خط : $a_{BC} = \frac{11-3}{4-3} = 8 \Rightarrow y-3 = 8(x-3) \Rightarrow y = 8x-21 \Rightarrow y-8x+21=0$ $AH = \text{فاصله نقطه A از خط BC} = \frac{ 4-8+21 }{\sqrt{1^2+(-8)^2}} = \frac{17}{\sqrt{65}} = \frac{17\sqrt{65}}{65}$	۴
B خط : $BC: y = \frac{3}{4}x - \frac{17}{4} \quad AB: y = -2x+7 \quad AC: 4y-3x-17=0$ $\frac{3}{4}x - \frac{17}{4} = -2x+7$ $\frac{11}{4}x = \frac{14}{4} + \frac{17}{4} \Rightarrow \frac{11}{4}x = \frac{31}{4} \Rightarrow x = \frac{31}{11}$ $x=3 \Rightarrow y = -2(3)+7=1 \Rightarrow B(3,1)$	۵