

$$\frac{k-m}{-9} = -\frac{1}{9} \Rightarrow \boxed{k-m=9}$$

$$\sqrt{(k-m)^2 + 81}$$

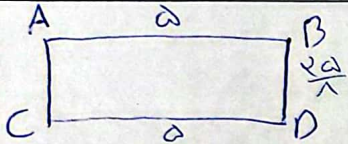
$$-\frac{1}{9}x+b \rightarrow -r+b=m$$

$$-\frac{1}{9}x+b \rightarrow -r \rightarrow 1+b=k$$

$$\frac{b+1-b+r}{k-m} \Rightarrow \sqrt{9+81} = \sqrt{90}$$

این صلع x فوردشی = صلدت مربع

$$s = \sqrt{90} \times \sqrt{90} = \boxed{90}$$



$$\left. \begin{array}{l} m_{AB} \Rightarrow -\frac{2}{\lambda} \\ m_{CD} \Rightarrow -\frac{2}{\lambda} \end{array} \right\} -\frac{2}{\lambda} = -\frac{2}{2x+1} \Rightarrow \boxed{x = \frac{1}{2}}$$

$$\frac{1-y-2}{x+1} = \frac{1-y}{-1-x} \Rightarrow \frac{-2-y}{x+1} = \frac{1-y}{-1-x} \Rightarrow 1+2y = 4-11y \Rightarrow y = \frac{14}{11}$$

$$A_C = \sqrt{\left(4 - \frac{14}{11}\right)^2 + \left(-\frac{1}{11}\right)^2} = \sqrt{\frac{16}{121} + \frac{1}{121}} = \sqrt{\frac{17}{121}} = \frac{\sqrt{17}}{11}$$

$$\tan \theta_0 = \frac{\sqrt{e}}{1} = \sqrt{e} = m$$

$$2mx + (m^2 - 1)y = 3 \Rightarrow y = \frac{3 - 2mx}{m^2 - 1}$$

$$\text{شیب} \Rightarrow \frac{-2m}{m^2 - 1} = \sqrt{e} \Rightarrow \sqrt{e} m^2 + 2m - \sqrt{e} = 0$$

$$\Delta = 4 + 12 = 16 \Rightarrow \frac{-2 \pm 4}{2\sqrt{e}} \Rightarrow \frac{\sqrt{e}}{e}$$

اضلاع
مقادیر
قابل قبول
برای m

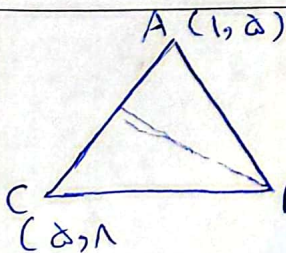
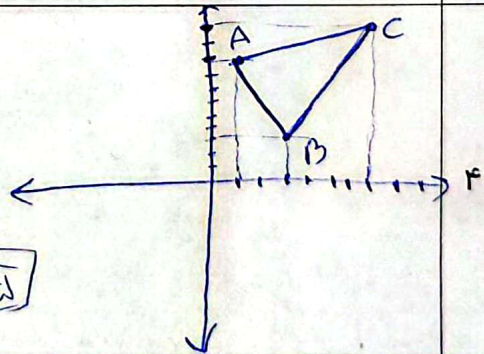
$$\sqrt{\frac{e}{e}} + \sqrt{\frac{e}{e}} \Rightarrow \frac{2\sqrt{e}}{e}$$

$$m_{BC} = \frac{1}{e} = 2 \quad BC \text{ معادله} \Rightarrow \boxed{y = 2x - 2}$$

$$m_{AH} = -\frac{1}{2} \quad AH \text{ معادله} \Rightarrow y = -\frac{1}{2}x + \frac{14}{2}$$

$$AH, BC \text{ تلاقی} \Rightarrow 2x - 2 = -\frac{1}{2}x + \frac{14}{2} \Rightarrow \boxed{x = 4}$$

$$AH \text{ طول} \Rightarrow \sqrt{(4-2)^2 + (1-2)^2} = \sqrt{2} = \boxed{\sqrt{2}}$$



$$AC = 5y - 2x - 14 = 0$$

$$B \text{ نقطه} \Rightarrow \frac{|-2(2) + 5(1) - 14|}{\sqrt{9 + 14}} = \boxed{\frac{11}{5}}$$

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$$y = ax + b \rightarrow y = ax - 6 \Rightarrow \boxed{y = -8x - 6}$$

$$\text{شیب} = \frac{-6}{\frac{3}{4}} = \boxed{-8}$$

قطر مربع
لایه نیاز
اول رسم
می باشد

$$\Rightarrow -8x - 6 = x \Rightarrow 9x = -6 \Rightarrow \boxed{x = -\frac{2}{3}}$$

$$\frac{2}{3} \times \sqrt{2} = \boxed{\frac{2\sqrt{2}}{3}}$$

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$$y = ax + 1$$

$$ay = x + a \Rightarrow y = \frac{x}{a} + 1 - \frac{1}{a}$$

$$\frac{1}{a} = a \Rightarrow a = \frac{1}{a} \Rightarrow \boxed{a = 1}$$

$$a = 1 \rightarrow y = x, y = x + 1$$

$$\frac{|a+1|}{\sqrt{1+1}} = \frac{\sqrt{2}}{2}$$

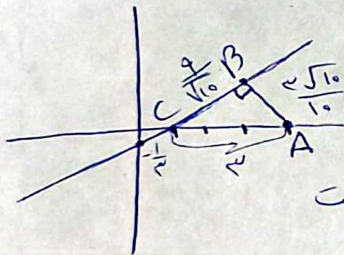
$$\frac{1}{2} + x^2 = \frac{d}{2}$$

$$x = \frac{d}{\sqrt{2}} = \frac{\sqrt{2}d}{2}$$

$$\Rightarrow \sqrt{\frac{2}{2}} \times \sqrt{\frac{2}{2}} = \boxed{d}$$

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$$x - 2y - 1 = 0 \Rightarrow \frac{|1-0-1|}{\sqrt{1+4}} = \frac{2}{\sqrt{5}} \Rightarrow \boxed{\frac{2\sqrt{5}}{5}}$$



$$9 - \frac{9}{10} = \frac{90}{10} - \frac{9}{10} = \frac{81}{10} = BC^2$$

$$BC = \frac{9}{\sqrt{10}} = \frac{9\sqrt{10}}{10}$$

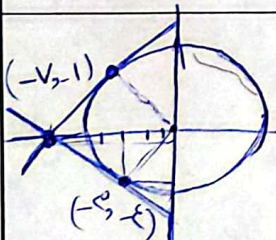
$$\text{مساحت مثلث} = \frac{1}{2} \times \frac{9\sqrt{10}}{10} \times \frac{9\sqrt{10}}{10} = \frac{405}{100} = \boxed{4.05}$$

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$$m = \frac{a-b}{-\frac{2}{4} + \frac{1}{4}} = \sqrt{5} \rightarrow a-b = -\frac{\sqrt{5}}{4}$$

$$\sqrt{(a-b)^2 + (\frac{1}{4})^2} = \sqrt{\frac{5}{16} + \frac{1}{16}} = \frac{1}{2} = \boxed{\frac{1}{2}}$$

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$$\sqrt{(-4)^2 + (-1)^2} = \boxed{5} \Rightarrow \text{شعاع دایره} \Rightarrow -\frac{4}{5}x - \frac{1}{5}y = \frac{25}{5}$$

$$\frac{b}{a} = d \Rightarrow \boxed{b = \frac{25}{4}}$$

$$\text{حاصل ضرب نقطه} \Rightarrow (-4) \times (-1) = \boxed{4}$$

$$\text{معادله خط مماس} = \frac{4}{5}x + \frac{25}{5} = y$$

$$-\frac{4}{5}x - \frac{1}{5}y = \frac{4}{5}x + \frac{25}{5} \Rightarrow \boxed{x = -4} \quad \boxed{y = 4}$$

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