

نام و نام خانوادگی پاسخنامه تشریحی تکلیف شماره 19 کلاس 19

$$\frac{m-k}{\varepsilon+2} = \frac{-1}{2} \Rightarrow \frac{k-3}{-1} = m \Rightarrow -3 = m-k \Rightarrow AB = \sqrt{\underbrace{(m-k)^2}_{-3} + (2+\varepsilon)^2} = \sqrt{\varepsilon\omega}$$

$$\delta = (\sqrt{\varepsilon\omega})^2 = \varepsilon\omega \quad \checkmark$$

(2)

$$AB = CD \Rightarrow m_{AB} = \frac{\varepsilon-1}{-1-3} = \frac{-2}{\varepsilon} \Rightarrow \frac{y+3-y}{-1-x-x} \Rightarrow x = \frac{3}{2} \quad \checkmark \quad m_{AB} = \frac{\varepsilon}{3} = \frac{y-\varepsilon}{\frac{3}{2}-(-1)} = \frac{2y-2\varepsilon}{5} \quad \times$$

$$\sqrt{\left(\frac{3}{2} - \frac{3}{2}\right)^2 + \left(\frac{\varepsilon}{2} + \frac{\varepsilon}{2}\right)^2} = \frac{\omega}{2} = d \Rightarrow \frac{\omega}{2} = \frac{\omega}{2} + 10 \quad \times$$

صفحه آخر...

(1)

$$\tan 45^\circ = \sqrt{3} \Rightarrow \frac{y-3}{m-1} = \sqrt{3} \Rightarrow \sqrt{3}m + 3m - \sqrt{3} = 0 \Rightarrow m^2 + 2m - 3 \xrightarrow{\frac{-2 \pm \sqrt{4+12}}{2}} \frac{-2 \pm 4}{2} \xrightarrow{\frac{2}{2}} \frac{2}{1} \quad \checkmark$$

(2)

$$M_{BC} = \frac{11-3}{3-3} = 2 \Rightarrow y-3 = 2(x-3) \Rightarrow y = 2x-3 \Rightarrow \frac{|Ax_0+By_0+c|}{\sqrt{A^2+B^2}} = \frac{|2-9-3|}{\sqrt{\omega}} = \frac{10}{\sqrt{\omega}}$$

$$\frac{10\sqrt{\omega}}{\omega} = 2\sqrt{\omega} \quad \checkmark$$

(2)

$$BC, AB \text{ تقاطع} \Rightarrow -19 = 2\left(\frac{3-3x}{2}\right) - 7x \Rightarrow -22 = -11x \Rightarrow x=2, y=1 \Rightarrow \begin{matrix} B \text{ داخل} \\ A \text{ خارج} \end{matrix} \Rightarrow$$

$$\frac{|Ax_0+By_0+c|}{\sqrt{A^2+B^2}} = \frac{|-9+4-17|}{\sqrt{14+4}} = \frac{22}{\omega} \Rightarrow BH = \frac{22}{\omega} \quad \checkmark$$

(2)

$$m = \frac{y+0}{\frac{-x}{\epsilon} - 0} = -\Lambda \Rightarrow y+y = -\Lambda(x) \rightarrow y = -\Lambda x - y \xrightarrow{\text{مشتق}} y = -y$$

$$\left[\frac{y}{x} \right] \xrightarrow{\text{مشتق}} \frac{y}{x} = -\frac{y}{x} \Rightarrow \frac{y}{x} = -\frac{y}{x}$$

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$$m_1 = m_2 \Rightarrow a = \pm 1 \xrightarrow{\text{مشتق}} \begin{cases} y = x+1 \\ y = x \end{cases} \Rightarrow \frac{1-1}{\sqrt{2}} = \frac{\sqrt{2}}{2} \Rightarrow \sqrt{2\omega - \frac{1}{\epsilon}} = \frac{\sqrt{2}}{2}$$

$$\text{المساحة} = \frac{\sqrt{2}}{2} \times \frac{\sqrt{2}}{2} = \frac{1}{2} \checkmark$$

(2)

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$$AB = AH = \frac{|1\epsilon - 0 - i|}{\sqrt{1+9}} = \frac{\sqrt{10}}{10} \left\{ \sqrt{r^2 - \left(\frac{3\sqrt{10}}{10}\right)^2} = \frac{9}{\sqrt{10}} \Rightarrow \max \delta = \frac{\frac{9}{\sqrt{10}} \times \frac{3\sqrt{10}}{10}}{1} = \frac{27}{10} \right\}$$

$$AC = r$$

(2)

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$$m = \frac{b-a}{-\frac{1}{r} + \frac{1}{r}} = \sqrt{r} \rightarrow b-a = \frac{\sqrt{r}}{y} \rightarrow d = \sqrt{(d-\omega)^2 + \left(-\frac{1}{r} + \frac{1}{r}\right)^2} = \frac{1}{r} \xrightarrow{\text{مشتق}} \frac{\sqrt{r}}{r} \checkmark$$

(2)

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$$r_{\text{مشتق}} = \omega \Rightarrow m_M = \frac{0+\epsilon}{0+\omega} = \frac{\epsilon}{\omega} \xrightarrow{M \perp L} m_L = \frac{-\omega}{\epsilon}$$

$$y - r = \frac{\epsilon}{\omega}(x + \epsilon) \quad y = \frac{-\omega}{\epsilon}x - \frac{\omega}{\epsilon}$$

$$\begin{cases} y + \frac{\omega}{\epsilon}x = -\frac{\omega}{\epsilon} \\ y - \frac{\omega}{\epsilon}x = -\frac{\omega}{\epsilon} \end{cases} \Rightarrow \begin{cases} y = -\frac{\omega}{\epsilon} \\ y = -\frac{\omega}{\epsilon} \end{cases} \Rightarrow x = -\frac{\omega}{\epsilon} \quad y = -\frac{\omega}{\epsilon} \checkmark$$

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$$m_{CD} = m_{AB} = -\frac{r}{k} \rightarrow \frac{r}{-1-2r} = -\frac{r}{k} \rightarrow r = \frac{r}{2}$$

$$m_{AB} \times m_{BC} = -1 \rightarrow -\frac{r}{k} \times \frac{y-1}{-\frac{r}{r}} = -1 \rightarrow y = -1$$

$$|AB| = \sqrt{14+9} = 5$$

$$|BC| = \sqrt{\frac{9}{r} + r} = \frac{5}{r}$$

$$\rightarrow p = 15$$

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