

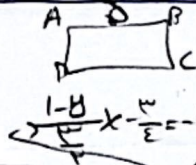
یا: دفع سر
۱۷ صحت

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$$A \begin{vmatrix} -2 \\ k \end{vmatrix} B \begin{vmatrix} \varepsilon \\ m \end{vmatrix} \frac{m-k}{\varepsilon} = -\frac{1}{\varepsilon} \rightarrow -4 = 2m - 2k \rightarrow m - k = 2 \rightarrow m = k + 2$$

$$\sqrt{(m-k)^2 + \varepsilon^2} = \sqrt{2^2 + \varepsilon^2} = \sqrt{4 + \varepsilon^2} \rightarrow m = k + 2 \rightarrow (k+2-k)^2 + \varepsilon^2 = 4 + \varepsilon^2 \rightarrow 4 + \varepsilon^2 = 4 + \varepsilon^2$$

$$A \begin{vmatrix} -1 \\ \varepsilon \end{vmatrix} B \begin{vmatrix} 1 \\ m \end{vmatrix} C \begin{vmatrix} y \\ y \end{vmatrix} D \begin{vmatrix} -1 \\ y+m \end{vmatrix}$$



$$A + u = B + v \rightarrow y_A + y_C = y_B + y_D$$

$$-1 + u = 1 - u + 2u = 2 \rightarrow u = \frac{3}{2}$$

$$AB = \frac{\Delta y}{\Delta x} = \frac{1-\varepsilon}{\frac{1}{\varepsilon}} = \varepsilon - 1$$

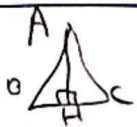
$$\sqrt{(2-y)^2 + (1+u)^2} = \frac{1}{\varepsilon} \rightarrow \frac{2}{\varepsilon} + 8 \rightarrow \frac{10}{\varepsilon} + 8 = \frac{10}{\varepsilon} + 8$$

$$2mu + (m^2 - 1)y = 2 \rightarrow -\frac{2}{\varepsilon} \rightarrow -\frac{2m}{m^2 - 1} \rightarrow \tan \theta = \sqrt{2} \rightarrow \sqrt{2m^2 + 1} - \sqrt{2} = 0$$

$$m^2 + 2m - 3 = 0 \rightarrow (m+3)(m-1) = 0 \rightarrow m = -3 \text{ or } m = 1$$

$$\frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$$

$$\frac{\sqrt{2}}{2} - (\sqrt{2}) \rightarrow \frac{\sqrt{2}}{2} + \frac{\sqrt{2}}{2} = \varepsilon \frac{\sqrt{2}}{2}$$



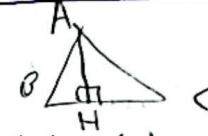
$$A \begin{vmatrix} 1 \\ q \end{vmatrix} B \begin{vmatrix} 1 \\ \varepsilon \end{vmatrix} C \begin{vmatrix} 1 \\ 1 \end{vmatrix}$$

$$BC \rightarrow \frac{\Delta y}{\Delta x} \rightarrow \frac{1-1}{1-1} \rightarrow \frac{1}{2} = \frac{1}{2} \rightarrow y - 1 = \frac{1}{2}(x - 1) \rightarrow y = \frac{x}{2} + \frac{1}{2}$$

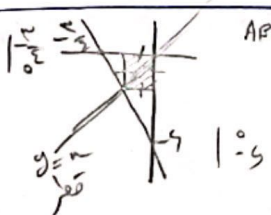
$$\frac{1(1) - 1(1) + 1}{\sqrt{2} + 1} = \frac{1}{\sqrt{2}} \rightarrow \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$$

$$AB = y + u = v \quad AC = 2y - u = 1 \quad BC = 2y - v = -1$$

$$\begin{cases} y + u = v \\ 2y - u = 1 \end{cases} \rightarrow -2y - 1u = -2 \rightarrow -1u = -1 \rightarrow u = 1 \rightarrow y = 0$$



$$\frac{1(0) - 1(1) + 1}{\sqrt{2} + 2} = \frac{0}{\sqrt{2} + 2}$$



$$AB \rightarrow \frac{\Delta y}{\Delta x} \rightarrow \frac{-4-0}{0+1} = -4 \rightarrow y + 4 = -4(x - 0) \rightarrow y = -4x - 4$$

$$y = -4x - 4 = y = -4 \rightarrow -4x - 4 = -4 \rightarrow -4x = 0 \rightarrow x = 0 \rightarrow y = -4$$

$$\sqrt{(-\frac{4}{\varepsilon} - 0)^2 + (-\frac{4}{\varepsilon} - 0)^2} = \sqrt{\frac{16}{\varepsilon^2} + \frac{16}{\varepsilon^2}} = \sqrt{\frac{32}{\varepsilon^2}} = \frac{\sqrt{32}}{\varepsilon}$$

$$y = au = 1 \quad ay - u = a - 1$$

$$a = \frac{1}{a} \rightarrow a^2 = 1 \rightarrow a = \pm 1 \rightarrow -1 \rightarrow y + u = 1 \rightarrow 1 + u = 1 \rightarrow u = 0 \rightarrow y = 1$$

$$\frac{1}{\sqrt{2}} \times \frac{1}{\sqrt{2}} = \frac{1}{2} \rightarrow \frac{1}{2} = \frac{1}{2} \rightarrow \frac{1}{2} = \frac{1}{2}$$

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A/ϵ_0

$1/\epsilon_0$

$n - cy = 1$

طول
فعل $\rightarrow \frac{|1(6) - 3(9) - 1|}{\sqrt{1+9}} = \frac{3}{\sqrt{10}} \rightarrow \frac{3\sqrt{10}}{10} = 44 \rightarrow S = \frac{1}{4} \times \frac{3}{\sqrt{10}} \times \frac{3}{\sqrt{10}} \rightarrow \frac{1}{4} \times \frac{9}{10} = \frac{9}{40}$

بقره $\frac{1}{4}$

جواب آخر $\frac{9}{40}$

$\left| \frac{1}{r} \right|_a$ $\left| -\frac{1}{r} \right|_6$  $\Delta y = 6 - a$
 $\Delta u = -\frac{1}{a} + \frac{1}{6} = \frac{1}{3}$
 $\frac{\Delta y}{\Delta u} = \sqrt{u} \rightarrow 6 - a = \frac{\sqrt{u}}{\frac{1}{3}} \rightarrow (6 - a)^2 = \left(\frac{\sqrt{u}}{\frac{1}{3}}\right)^2 = \frac{u}{\frac{1}{9}} = \frac{u}{\frac{1}{9}} = \frac{1}{9}u$
 $\rightarrow \sqrt{\Delta u^2 + \Delta y^2} \rightarrow \sqrt{\frac{1}{9} + \frac{1}{9}} \rightarrow \sqrt{\frac{2}{9}}$
 $\rightarrow \frac{1}{3} \times \sqrt{2}$
 $\rightarrow \frac{1}{3} \times \sqrt{2}$

$$y = -\frac{\mu}{\varepsilon} x$$

$$\sqrt{\frac{\mu^2 + \varepsilon^2}{14}} \cdot 4r = d$$

$$x^2 + \frac{\varepsilon^2}{\mu^2} x^2 = r^2 \Rightarrow x = \frac{\mu}{\varepsilon} r$$

$$y = \frac{\varepsilon}{\mu} x + \frac{\mu}{\mu} d \Rightarrow y = \varepsilon x + d$$

$$y = -\frac{\mu}{\varepsilon} x$$

$$y_1 = y_p$$

$$-\frac{\mu}{\varepsilon} x - r\delta = \frac{\varepsilon}{\mu} x + \frac{\mu}{\varepsilon}$$

$$-\frac{\mu}{\varepsilon} x = \frac{\mu}{\varepsilon} \Rightarrow x = -1 \Rightarrow y = -1$$

$$x \times y \Rightarrow -1 \times -1 = 1$$