

نام و نام خانوادگی

پاسخنامه تشریحی تکلیف شماره ۱۷ کلاس ۱۳۰۰

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$$m = \frac{\Delta y}{\Delta x} \Rightarrow -\frac{1}{2} = \frac{k-m}{-4} \Rightarrow k-m=2$$

$$AB = \sqrt{(k-m)^2 + (-4)^2} = \sqrt{9+16} = \sqrt{25} \text{ موع}$$

$$S = (AB)^2 = 25$$

$A \begin{vmatrix} 1 & 1 \\ 1 & 1 \end{vmatrix} B \begin{vmatrix} 1 & 1 \\ 1 & 1 \end{vmatrix} C \begin{vmatrix} 1 & 1 \\ 1 & 1 \end{vmatrix} D \begin{vmatrix} 1 & 1 \\ 1 & 1 \end{vmatrix}$
 $k_A + k_C = k_B + k_D \Rightarrow 1 + k = 1 + (k-2) \Rightarrow 2k = 2 \Rightarrow k = 1$
 $y_A + y_C = y_B + y_D \Rightarrow 1 + y = 1 + y + 1 \Rightarrow y = 1$
 $m_{BC} = -\frac{1}{2} \Rightarrow m_{OC} = \frac{1}{2} \Rightarrow y-1 = \frac{1}{2}(x-1) \Rightarrow y-1 = \frac{1}{2}(\frac{1}{2}-1) \Rightarrow y-1 = -\frac{1}{4} \Rightarrow y = \frac{3}{4}$
 $AB = \sqrt{1+9} = \sqrt{10} \quad BC = \sqrt{\frac{1}{4}+1} = \sqrt{\frac{5}{4}} = \frac{\sqrt{5}}{2}$

$$\vec{a} = \frac{1}{\sqrt{2}} = \sqrt{2} \quad (m^2-1)y = 2-2mn \Rightarrow y = \frac{2}{m^2-1} - \frac{2m}{m^2-1}x$$

$$\frac{-2m}{m^2-1} = \sqrt{2} \Rightarrow -2m = \sqrt{2}m^2 - \sqrt{2} \Rightarrow \sqrt{2}m^2 + 2m - \sqrt{2} = 0 \Rightarrow m = \frac{-2 \pm \sqrt{12}}{2\sqrt{2}} = \frac{-2 \pm 2\sqrt{3}}{2\sqrt{2}} = \frac{-1 \pm \sqrt{3}}{\sqrt{2}}$$

$$m = \frac{-1 \pm \sqrt{3}}{\sqrt{2}} \Rightarrow m = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2} \quad \text{یا} \quad m = -\frac{1}{\sqrt{2}} = -\frac{\sqrt{2}}{2}$$

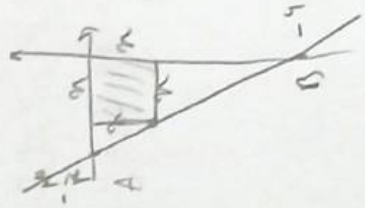
$$m_{BC} = \frac{\Delta y}{\Delta x} = \frac{1}{2} = 2 \Rightarrow m_{AC} = -\frac{1}{2} \Rightarrow y-9 = -\frac{1}{2}(x-1) \Rightarrow y = -\frac{x}{2} + \frac{19}{2}$$

$$y-9 = 2(x-1) \Rightarrow y = 2x-7 \quad AB = \sqrt{(2-1)^2 + (9-1)^2} = \sqrt{65} = \sqrt{5 \cdot 13}$$

$$\begin{cases} y = 2x-7 \\ y = -\frac{x}{2} + \frac{19}{2} \end{cases} \Rightarrow \frac{2}{1}x = \frac{19}{2} \Rightarrow x = \frac{19}{4} \Rightarrow y = \frac{19}{2} - 7 = \frac{5}{2}$$

$AB: y = 2x+1$
 $AC: y = \frac{1}{2}x + \frac{11}{2}$
 $BC: y = \frac{1}{2}x - \frac{11}{2}$

$$\begin{cases} y = \frac{1}{2}x + \frac{11}{2} \\ y = -\frac{1}{2}x + 1 \end{cases} \Rightarrow \frac{1}{2}x + \frac{11}{2} = -\frac{1}{2}x + 1 \Rightarrow x = -5 \Rightarrow y = -\frac{5}{2} + \frac{11}{2} = 3$$



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

جواب :-

$$\begin{array}{c} \Sigma \\ 2 \ 12 \\ 1 \\ \rightarrow \sigma \ 12 \\ 11 \\ 2 \end{array}$$

$$\begin{aligned} & \frac{2}{3} \\ & \frac{1}{2} \\ & \frac{1}{3} \\ & \frac{1}{4} \\ & \frac{1}{5} \\ & \frac{1}{6} \\ & \frac{1}{7} \\ & \frac{1}{8} \\ & \frac{1}{9} \\ & \frac{1}{10} \end{aligned}$$

$$\frac{d^2 \phi}{d\eta^2} = -\phi$$

$$\frac{\partial V}{\partial y} = -\lambda \alpha$$

[illegible]

ظلم و جور

$$y = am + 1$$

$\begin{array}{c} -15 \\ 11 \\ 6 \\ \uparrow \\ 10 \\ 12 \end{array}$

$$\begin{array}{r} 11 \\ 5 \overline{) 55} \end{array}$$

$\uparrow$
 $-$
 $-2''$
 -5
 $\uparrow$
 -16

1-7
1-9
1-10

$$\gamma_{\omega} = \frac{1}{\gamma} + (\gamma_{\omega})^2$$

$$Y_{\omega} = \frac{1}{1 + \omega^2}$$

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

$\frac{5}{2} \times 2$
 $\frac{5}{2} \times 2$
 $\frac{5}{2} \times 2$
 $\frac{5}{2} \times 2$

$$f(x) = g(x) + h(x)$$

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

(50)



$$\frac{\sqrt{10}}{2} = \frac{\sqrt{10}}{2}$$

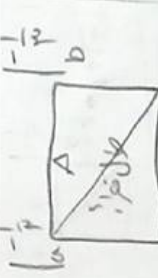
2. $\rightarrow$ 1, 2, 3

$$C = \sqrt{1 - \frac{r^2(\frac{1}{2})}{r^2_{max} + 1}}$$

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

$$n = r, V$$

$$\mathcal{E} = \frac{1}{2} \frac{d}{dt} \left(\frac{1}{2} \dot{\phi}^2 + \frac{1}{2} \dot{\psi}^2 + \frac{1}{2} \dot{\chi}^2 + \frac{1}{2} \dot{\eta}^2 + \frac{1}{2} \dot{\theta}^2 + \frac{1}{2} \dot{\phi}^2 + \frac{1}{2} \dot{\psi}^2 + \frac{1}{2} \dot{\chi}^2 + \frac{1}{2} \dot{\eta}^2 + \frac{1}{2} \dot{\theta}^2 \right)$$



$$\Gamma = \sqrt{\frac{\Delta \Gamma}{\Delta \alpha}} \Rightarrow \sqrt{\frac{b-a}{-1 \gamma}} \uparrow \sqrt{\frac{b-a}{\gamma^2}}$$

$$\text{جواب: } \left(\frac{-1 \pm \sqrt{1 + 4}}{2} \right) + \left(\frac{-9 \pm \sqrt{81 - 4}}{2} \right)$$

$$\sqrt{2} = 1.414$$



$$m_0 A = \frac{\Delta y}{\Delta x} = \frac{4}{2} = 2$$

$$\begin{array}{r} 2 \\ 3 \overline{) 6} \\ \underline{6} \\ 0 \end{array}$$

$$\frac{D}{\partial} \left(\frac{\partial}{\partial x} + \frac{\partial}{\partial y} + \frac{\partial}{\partial z} \right) = \frac{D}{\partial} \left(\frac{\partial}{\partial x} + \frac{\partial}{\partial y} + \frac{\partial}{\partial z} \right)$$

$\frac{9}{2} \times \frac{2}{3}$

$$x_{xy} = -v_x - 1 = \textcircled{v}$$

$$\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2}$$

$$\begin{array}{r} 4 \cdot 2 \\ \hline 8 \\ 20 \end{array}$$