

نام و نام خانوادگی ابیر محمد حبیبی پاسخنامه تشریحی تکلیف شماره ۱۵۱ کلاس یازدهم سیر B

(الف) خط انحناء Δ_r | r | غیر کند، پس
 سبب خط انحناء $m = -1$ $y = mnr + b$ r y n r b
 $m = \frac{\Delta y}{\Delta x} \Rightarrow m = \frac{r - (-r)}{r - 0} = \frac{r}{r} = 1 \Rightarrow y = -rx + b$ (r, r) $r = -f(r)$ $b = 1A$

$$y = -x + 4$$

$d = -rm + r$
 1. 1. 1. $ry + qm = -1 \Rightarrow m'm' \rightarrow m' = \frac{-q}{p} = -r = m \Rightarrow y = rx + b \frac{(f, r)}{r, f(r) \cdot b = r}$
 $m \cdot ry = 1$ 1. 1. 1. $\Rightarrow m'm' = -1 \Rightarrow m = \frac{-1}{r} = -1$ 1. 1. 1. $\Rightarrow y = rx + b \frac{(f, r)}{r, f(r) \cdot b = r}$
 $\tan \frac{\pi}{4} = 1 \Rightarrow y = rx + b \frac{(f, r)}{r, f(r) \cdot b = r}$ 1. 1. 1. $y = rx + b \Rightarrow b = r + r = 2r$ 1. 1. 1. $y = rx + 2r \tan \frac{\pi}{4} = m$ 1. 1. 1.

$$A \begin{vmatrix} 2 \\ 2 \end{vmatrix}, B \begin{vmatrix} -1 \\ 1 \end{vmatrix} \Rightarrow AB = \sqrt{(\Delta y)^2 + (\Delta x)^2} \Rightarrow AB = \sqrt{(1-3)^2 + (-1+1)^2} \quad (\text{اف})$$

$$AB = \sqrt{9^2 + 14^2} = \sqrt{9+14} = \sqrt{20} \Rightarrow AB = 2$$

$$\left. \begin{aligned} & \text{if } \begin{pmatrix} x_0 \\ y_0 \end{pmatrix} \Rightarrow \text{an oblique} \\ & \text{then } \frac{ax_0 + by_0 + c}{\sqrt{a^2 + b^2}} \end{aligned} \right\} \Rightarrow \frac{|1 \cdot 10 + 1 \cdot 10 - 10|}{\sqrt{1^2 + 1^2}} = \frac{|10|}{\sqrt{2}} = \frac{10}{\sqrt{2}} = 5\sqrt{2}$$

[illegible]

$$am + by - c = 0 \quad 2 \text{ eqns} \quad rx - ry = 1, \quad rx + ry = r \Rightarrow rx - ry - 1 = 0, \quad rx + ry - r = 0$$

$$\frac{|x_n + y - r|}{\sqrt{r^2 + r^2}} = \frac{|x_n - y - 1|}{\sqrt{r^2 + r^2}} \Rightarrow \frac{|x_n + y - r|}{\cancel{\sqrt{r^2 + r^2}}} = \frac{|x_n - y - 1|}{\cancel{\sqrt{r^2 + r^2}}}$$

$$\frac{1}{\sqrt{a^2+b^2}} \frac{1}{\sqrt{a^2+b^2}} \left\{ \begin{array}{l} |x_n + y_n - r| = |x_n - y_n - 1| \Rightarrow x_n + y_n - r = x_n - y_n - 1 \\ x_n + y_n - r = -x_n + y_n + 1 \end{array} \right. \Rightarrow \begin{array}{l} 0y - n - r = 0 \\ 0n + y - r = 0 \end{array}$$

$$t_{\text{ana}} = \left| \frac{m - m'}{1 + mm'} \right| \quad m = -r \quad m' = r$$

$$\tan \alpha = \left| \frac{-r - r}{1 + 4} \right| = \tan \alpha = \left| \frac{-0}{-1} \right| = \tan \alpha = 1 \Rightarrow \alpha = \frac{\pi}{4} = 45^\circ$$

(الف)

$$= \sqrt{(-1 - (-1))^2 + (-1 - 0)^2} \Rightarrow AB = \sqrt{0^2 + 1^2} = \sqrt{0 + 1} = \sqrt{1} \Rightarrow AB = 1.$$

$$M = A \rightarrow \begin{cases} x_c, y_c = \frac{x_A + x_B}{2} = x_c \Rightarrow \frac{x_A + (-2)}{2} = -1 \\ (x_c, y_c) \quad \frac{y_A + y_B}{2} = y_c \Rightarrow \frac{-5 + 1}{2} = -2 \end{cases} \quad M = (-1, -2) \quad (\rightarrow)$$

$$A \begin{vmatrix} r \\ 1 \end{vmatrix}, B \begin{vmatrix} -r \\ r \end{vmatrix} \quad C \begin{vmatrix} -1 \\ -1 \end{vmatrix} \quad \text{قد } G \left(\frac{x_1 + x_2 + x_3}{r}, \frac{y_1 + y_2 + y_3}{r} \right) \text{ (نقطة)}$$

$$x_G = \frac{r + (-r) + (-1 \cdot)}{r} = \frac{-9}{r} = -r, \quad y_G = \frac{-1r + (r) + (1)}{r} = \frac{-9}{r} = -r \Rightarrow G(-r, -r)$$

$$S = \frac{1}{r} \begin{vmatrix} m_1 & q_1 & 1 \\ m_r & q_r & 1 \\ m_r & q_r & 1 \end{vmatrix} \Rightarrow S = \frac{1}{r} \begin{vmatrix} r & 1 & 1 \\ -r & r & 1 \\ -1 & -1 & 1 \end{vmatrix} = \frac{1}{r} (q + r q + 1 + r + r + r q) = \frac{1}{r} (q r) = \boxed{\frac{1}{r}}$$

(ج) y, m را عوض کنیم.
 $y = \frac{2m+1}{4m-3} \rightarrow m = \frac{2y+1}{2y-3}$

$$y = \frac{r_{m1}}{r_{m2}} \quad (1)$$

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$$-y = \frac{r_{n+1}}{r_n - r}$$

$$\begin{aligned} 5m + 4n &= -4 + 1 = -3 \\ 5m + 4n - 5m + 1 &= -3 - 1 = -4 \\ 4n &= -4 \end{aligned}$$

$$y(t_n - r) = r_{m+1}$$

$$y = \frac{-r_n + 1}{-r_n - r}$$

$$y = \frac{-r_n - 1}{r_n - r}$$

$$-g = \frac{\gamma_{\text{mol}}}{E_{\text{ph}} - \gamma}$$

$$y = \frac{m+1}{m-r} \Rightarrow \left| \begin{array}{c} r \\ r \end{array} \right|$$

$$y = \frac{r_{n+1}}{r_n - r}$$

$$g = \frac{r_{m+1}}{2-r} - \frac{1}{1-r}$$

$$\begin{cases} m' = m - r \\ n = m' + r \end{cases} \quad \begin{cases} y' = y - r \\ y = y' + r \end{cases}$$

$$g' = \frac{r_{m'} - r_{m'} + 1}{m'}$$

$$\begin{aligned} n' &= n - r & g' &= g + r \\ n &= n' + r & g &= g' - r \end{aligned} \quad \underline{\underline{\text{جواب}}}$$

$$y' + r = \frac{r(m' + r) + 1}{a' + r - r} \Rightarrow y' = \frac{r m' + r + 1}{a'} \Big|_r$$

$$y' - r = \frac{r(n' + r) + 1}{(n' + r) - r} \Rightarrow \frac{r n' + r + 1}{n' - 1} = y' - r$$

$$q' = \frac{r' + \omega}{m' - 1} + r = \boxed{y' = \frac{\partial \alpha' + r}{\alpha' - 1}}$$

$$y' = \frac{v}{n'}$$

[illegible]