

تکلیف ۱۴

یازدهم ریاضی ۲

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①

$$m = \frac{1 - \sqrt{14}}{\sqrt{14} + 1} = -\frac{\sqrt{14}}{14} = -\frac{1}{\sqrt{14}}$$

$$\frac{1 + \sqrt{14}}{2} = 3$$

$$\frac{1 - \sqrt{14}}{2} = 1$$

$$\Rightarrow m' = \sqrt{14}$$

$$\Rightarrow O(1, 1)$$

$$\Rightarrow y - 1 = \sqrt{14}(x - 1) \Rightarrow y = \sqrt{14}x - 14$$

②

$$\frac{1}{2} \begin{vmatrix} -1 & -\sqrt{14} & 3 \\ 3 & \sqrt{14} & 1 \\ 1 & 1 & 1 \end{vmatrix} = \frac{-10}{2} = -5 \Rightarrow S = 0$$

$$\sqrt{BC} = \sqrt{(-\sqrt{14} + 1)^2 + (\sqrt{14} - 1)^2} = 0$$

$$\frac{AH \times BC}{2} = 0 \Rightarrow \frac{AH \times \cancel{BC}}{2} = \cancel{0} \Rightarrow AH = \sqrt{14}$$

$$\frac{AH \times \cancel{BC}}{2} = \cancel{0}$$

$$AH = \sqrt{14}$$

③

$$\sqrt{14}y - 14x - 14 = 0$$

$$\sqrt{14}y - 14x - 14 = 0$$

$\times 2$

$$\sqrt{14}y - 28x - 28 = 0$$

$$\Rightarrow a = \sqrt{14}$$

$$\Rightarrow \frac{|-14 + 28|}{\sqrt{14 + 14}} = \frac{14}{2\sqrt{14}}$$

$$\Rightarrow \frac{14}{2\sqrt{14}} = 2r \Rightarrow r = \frac{7}{\sqrt{14}} \Rightarrow S = r^2 \pi = \frac{49\pi}{14}$$

$$m_n = \frac{r+r}{r} = 2$$

$$m_y = \frac{r+1}{r} = 2 \Rightarrow m(r, r)$$

$$M_{AB} = \frac{1-r}{r-r} = -1 \Rightarrow y-r = -(x-2) \Rightarrow y = -x+2$$

$$\Rightarrow M_{CH} = 1$$

$$\Rightarrow y+1 = x+2$$

$$\Rightarrow y = x+1$$

$$\Rightarrow x+2 = -x+2$$

$$\Rightarrow x = 1, d$$

$$\Rightarrow y = 2, d$$

$$\sqrt{(2-1, d)^2 + (2, d-2)^2} = 1, d \times \sqrt{2}$$

$$\frac{m+1}{2m-2} \neq \frac{2m-2}{m-d} \Rightarrow \frac{m+1}{2m-2} = -\frac{m-d}{2m-2}$$

$$\Rightarrow \cancel{2m^2} + m - 2 = -2m + \cancel{2m^2} + 10m$$

$$\Rightarrow 8m^2 - 13m + 18 = 0 \Rightarrow \Delta = 149 - 144$$

$$\Rightarrow \Delta < 0$$

$$\Rightarrow \text{لا يوجد حل حقيقي}$$

$$\left. \begin{aligned} x + 2y + 1 &= f \\ x + y &= f \end{aligned} \right\} \Rightarrow y = -1 \Rightarrow x = 0$$

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$$\Rightarrow B(0, -1)$$

$$\left. \begin{aligned} y &= f - x \\ y &= x - 1 \end{aligned} \right\} \Rightarrow f - x = x - 1 \Rightarrow 2x = f + 1$$

$$\Rightarrow x = \frac{f+1}{2} \Rightarrow y = \frac{f-1}{2} \Rightarrow C\left(\frac{f+1}{2}, \frac{f-1}{2}\right)$$

$$\left. \begin{aligned} y &= x - 1 \\ x + 2y &= 2 \end{aligned} \right\} \Rightarrow x + 2(x - 1) = 2 \Rightarrow 3x - 2 = 2 \Rightarrow 3x = 4 \Rightarrow x = \frac{4}{3}$$

$$\Rightarrow y = 1 \Rightarrow A(1, 1)$$

$$\frac{2 + \frac{4}{3}}{2} = \frac{10}{6}$$

$$\frac{-1 + \frac{4}{3}}{2} = \frac{1}{6}$$

$$\Rightarrow M = \left(\frac{10}{6}, \frac{1}{6} \right)$$

$$M_{BC} = \frac{-1 - \frac{r}{r}}{\delta - \frac{\delta}{r}} = \frac{-\frac{1+r}{r}}{\frac{r-1}{r}} = -1 \Rightarrow M_{AH} = 1$$

$$y-1 = n-1 \Rightarrow y = n-1$$

$$\Rightarrow n-1 = 1-n$$

$$2n = 2 \Rightarrow n = 1 \Rightarrow y = 1$$

$$\int \left(\frac{r-1}{r} \right)^r + \left(1 - \frac{r}{r} \right)^r = \left(\frac{\sqrt{r}}{r} \right)$$

~~$ax_0 + by_0$~~

$$\frac{|c|}{\sqrt{a^2 + b^2}} = \sqrt{r_0}$$

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$$y = \frac{1}{r}x + b \Rightarrow ry + x - rb = 0$$

$$\Rightarrow \frac{|c|}{\sqrt{a}} = \sqrt{r_0} \Rightarrow 1 = |c|$$

$$\Rightarrow 1 = |-rb| \Rightarrow 1 = |-b|$$

$$\Rightarrow b = \pm 1 \Rightarrow \begin{array}{l} y = 1 - \frac{x}{r} \quad x=0 \Rightarrow y=1 \\ y = -1 - \frac{x}{r} \quad x=0 \Rightarrow y=-1 \\ y=0 \Rightarrow x=r \end{array}$$

$$\Rightarrow \sqrt{1 + r^2} = \sqrt{2} \sqrt{r}$$

(1)

$$m(r_0 - r) \Rightarrow \frac{n - r}{y + r} \quad y' = \frac{r}{n + r} - r \quad (9)$$

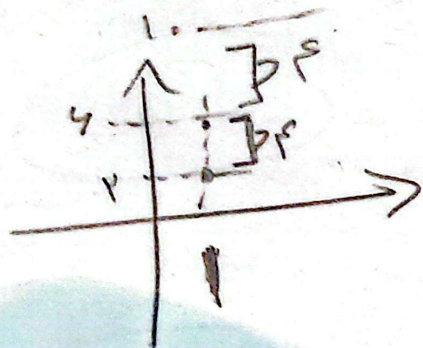
$$\Rightarrow y' = \cancel{r} n + 1 + \frac{r}{y + r}$$

$$\Rightarrow \underline{y = rn + w}$$

$$m = 1 \Rightarrow m' = -1$$

$$\Rightarrow y + r = -1(n - 1) \Rightarrow y = -n + w$$

$$\Rightarrow -n + w = n + d \Rightarrow \underline{n = 1} \Rightarrow \underline{y = r}$$



$$\Rightarrow A'(1, 1) \Rightarrow r_0 - 1 = \underline{(19)}$$