

یازدهم

کتاب ریاضیات

(1)

$$A(1, -6)$$

$$\frac{x+2}{y} = 2$$

$$(2, 1)$$

$$y = 2x + 22$$

$$B(2, 1)$$

$$\frac{x-1}{y} = 1$$

$$m = \frac{\Delta y}{\Delta x} = \frac{1 - (-6)}{2 - 1} = 7$$

$$y = \frac{1}{7}x + \frac{15}{7} \Rightarrow 7y = x + 15$$

$$B(\sqrt{x^2 + (y-1)^2} = 5)$$

$$AH = \frac{|ax + by + c|}{\sqrt{a^2 + b^2}}$$

$$\frac{|3(1) + 1(1) - 5|}{\sqrt{9 + 1}} = 2$$

$$y = -\frac{1}{3}x + \frac{11}{3}$$

$$3y + x - 11 = 0$$

$$m(B) \frac{\Delta y}{\Delta x} = \frac{f}{-r}$$

(2)

$$\frac{1}{a} = \frac{11}{5}$$

$$5 - 2 = 3$$

$$y = 2x + 1 \quad m = \frac{1}{2}$$

$$y = ax + 1 \quad m = \frac{1}{2} = \frac{a}{f} \Rightarrow a = 2$$

$$d = \frac{c - c'}{\sqrt{a^2 + b^2}} = \frac{12}{\sqrt{1 + 1}} = \frac{12}{\sqrt{2}} = \frac{12}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{6\sqrt{2}}{1}$$

$$y = 2x + 1$$

$$y = (x + 1)$$

$$\frac{6\sqrt{2}}{1} = 12 = \frac{12}{1} = \frac{12}{1} \Rightarrow M_1 = M_2 \frac{f}{r}$$

$$S = \frac{q}{\omega} \mu$$

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

$$y = -x + 1$$

$$m = y = x - 1$$

$$\begin{cases} y + x = 1 \\ y - x = -1 \end{cases}$$

$$\begin{aligned} 2y &= 0 \\ y &= 0 \\ x &= 1 \end{aligned}$$

$$H = \left(\frac{x}{r}, \frac{y}{r} \right)$$

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

$$m = (2, 2)$$

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

$$\sqrt{\left(x - \frac{r}{2}\right)^2 + \left(y - \frac{r}{2}\right)^2} = \sqrt{\frac{1}{r}} = \sqrt{\frac{1}{r}} = \sqrt{\frac{1}{r}}$$

$$\frac{m+1}{r-m-f} = \frac{a-m}{r-m}$$

$$m' = \frac{r-rm}{a-m}$$

$$m = \frac{m+1}{r-m-f}$$

$$\frac{m+1}{r-m-f} = \frac{a-m}{r-m}$$

$$rm = r^2 + r \cdot rm = -1 \cdot m + r^2 + r = rm$$

$$dm^2 = 12m + 125$$

در هر دو

$$A = \begin{cases} x+ry = 1 \\ x-y = 1 \end{cases} \quad \begin{cases} rx+ry = 1 \\ x-y = 1 \end{cases}$$

$$A = \begin{pmatrix} 1 & r \\ 1 & -1 \end{pmatrix}$$

$$B = \begin{cases} x+ry = 1 \\ x-y = 1 \end{cases}$$

$$B = (d, -1) \quad - \text{S}$$

$$C = \begin{cases} rx-y = 1 \\ x+y = 1 \end{cases}$$

$$rx = d$$

$$x = \frac{d}{r}$$

$$((\frac{d}{r}, \frac{1}{r}))$$

$$m = \frac{\frac{1}{r}}{\frac{d}{r} - 1} = -1$$

$$BC = y = -x + 1$$

$$AH = y = 0$$

$$H = (1, 1)$$

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

$$AH = \sqrt{1}$$

$$\frac{d+r}{r} = \frac{1}{r} \quad m = \left(\frac{1}{r}, \frac{1}{r}\right)$$

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

$$\begin{cases} y+x = 1 \\ y-x = 0 \end{cases}$$

$$ry = 1$$

$$y = 1$$

$$x = 0$$

$$\sqrt{\left(\frac{1}{r} - 1\right)^2 + \left(\frac{1}{r} - 1\right)^2} \cdot \frac{\sqrt{d}}{r}$$

$$\frac{1}{r}$$

$$\frac{\sqrt{d}}{r} = \frac{d}{r}$$

$$\frac{\sqrt{d}}{r} = \frac{d}{r}$$

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

$$\frac{ry + x - c}{\sqrt{a^2 + b^2}} = \frac{ry + x - c}{\sqrt{1 + r^2}}$$

$$\frac{|r(0) + (0) - c|}{\sqrt{1 + r^2}} = \sqrt{r} \Rightarrow |c| = 1$$

$$c = \pm 1$$

$$\sqrt{(x_1 - y_1)^2 + (x_2 - y_2)^2} =$$

$$\sqrt{\left(\frac{d}{r} - 0\right)^2 + \left(0 - 1\right)^2} = \sqrt{1 + \frac{d^2}{r^2}} = \frac{d}{r}$$

$$y = (1-m)x + r \quad \left| \frac{r}{m-1} \right|$$

$$y = \frac{f}{m}x + r \quad \left| \frac{-m}{r} \right|$$

$$y = 0 \Rightarrow x = \frac{-r}{1-m} \Rightarrow x = \frac{r}{m-1}$$

$$y = 0 \Rightarrow x = \frac{m}{r} \Rightarrow x = \frac{f}{r} - \frac{m}{r}$$

$$- \Lambda$$

$$\sqrt{(0-0)^2 + \left(\frac{r}{m-1} - \frac{m}{r}\right)^2} = \frac{d}{r}$$

$$\left| \frac{r}{m-1} - \frac{m}{r} \right| = \frac{d}{r}$$

$$\left| \frac{r(m-r)}{r(m-r)} \right| = \frac{d}{r}$$

$$\Lambda + |r_m - r_m| = |m-1| \Rightarrow |r_m - r_m| = \Lambda$$

$$m = r$$

$$r(m-r) = 0$$

$$-\Lambda - |r_m + r_m| = |m-1| \Rightarrow |r_m + r_m| = \Lambda$$

$$(r)(-r-\sqrt{d})(-r+\sqrt{d}) = r(f-d) = (-r)$$

$$= \pm \sqrt{d}$$

$$= \frac{-\Lambda \pm f\sqrt{d}}{r}$$

$$y = \ln - 2 \quad | \begin{smallmatrix} 0 \\ -2 \end{smallmatrix}$$

-9

$$\frac{x_A + x'_A}{2} = 1$$

$$\frac{0 + x'_A}{2} = 1$$

$$x'_A = 2$$

$$| \begin{smallmatrix} 1 \\ -1 \end{smallmatrix}$$

$$\frac{y_A + y'_A}{2} = -1$$

$$\frac{-1 + y'_A}{2} = -1$$

$$y'_A = -1$$

max

$$\Rightarrow y = \ln - 9$$

$$y = \ln - 2$$

$$max = -1$$

$$A | \begin{smallmatrix} 1 \\ 1 \end{smallmatrix}$$

-1.

$$\{ y = -x - 1 \}$$

$$\begin{cases} y - x = 0 \\ y + x = -1 \end{cases}$$

$$y = 1 \quad x = -1$$

$$| \begin{smallmatrix} 1 & -1 \\ 1 & 1 \end{smallmatrix}$$

$$\frac{x_A + x'_A}{2} = 20$$

$$\frac{1 + x'_A}{2} = -1$$

$$x'_A = -3$$

$$B = | \begin{smallmatrix} -1 \\ 1 \end{smallmatrix}$$

$$\frac{y_A + y'_A}{2} = 10$$

$$\frac{1 + y'_A}{2} = 1$$

$$y'_A = 1$$

$$f(x) + 1 = (10)$$