

19, 15

تربیب سلا 190

عرفان حاج علیزاده

$$\begin{bmatrix} 1 \\ 1 \end{bmatrix} \begin{bmatrix} 1 \\ -1 \end{bmatrix}$$

$$\frac{1 - (-1)}{1 - 1} = -V = m$$

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

$$\frac{1-1}{1} = 0$$

$$\begin{bmatrix} 1 \\ 1 \end{bmatrix}$$

(2)

$$y = ax + b$$

$$1 = \frac{1}{V} \times 1 + b$$

$$b = \frac{1}{V}$$

$$y = \frac{1}{V} x + \frac{1}{V}$$

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

(2)

$$\begin{bmatrix} -1 \\ 1 \end{bmatrix} \begin{bmatrix} -1 \\ 1 \end{bmatrix}$$

$$\frac{1 - 1}{-1 - 1} = \frac{0}{-2} = 0$$

$$1 = -1 \times \frac{1}{-2} + b$$

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

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

$$b = \frac{1}{4}$$

$$y = \frac{1}{2} x - \frac{1}{4}$$

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

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

(2)

$$y - x = 1$$

$$y - 1x = 1$$

$$\frac{|1 \cdot 1 - 1|}{\sqrt{1^2 + 1^2}} = \frac{0}{\sqrt{2}} = 0$$

$$y - 1x = 1$$

$$y - 1x = 1$$

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

$$S = \frac{1}{\sqrt{2}} \times \frac{1}{\sqrt{2}} \times \pi = \frac{\pi}{2}$$

(2)

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

$$\frac{1-1}{1} = 0$$

$$\begin{bmatrix} 1 \\ 1 \end{bmatrix} \begin{bmatrix} 1 \\ 1 \end{bmatrix}$$

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

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

$$\frac{1-1}{1-1} = \frac{0}{0}$$

$$1 = 1x - 1 + b$$

$$y = -x + 2$$

$$-1 = -1 \times 1 + b$$

$$y = x - 1$$

$$-x + 2 = x - 1$$

$$x = \frac{3}{2}$$

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

$$\sqrt{\left(\frac{1}{2} - 1\right)^2 + \left(\frac{3}{2} - 1\right)^2} = \frac{\sqrt{2}}{2} = \frac{\sqrt{2}}{2}$$

$$\frac{\sqrt{2}}{2} - \frac{\sqrt{2}}{2} = 0$$

$$b = -1$$

(2)

$$(a-m)y = (1-m)x + 1$$

$$a = \frac{1-m}{a-m}$$

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

$$am^2 - 1m + 1 = 0$$

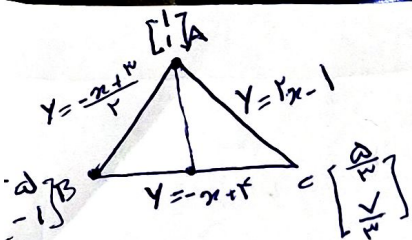
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$$(1-m)y = (m+1)x + 1$$

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

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

$$am^2 - 1m + 1 = 0$$



$$\begin{aligned}
 y_{n-1} &= -x + r \\
 y_n &= \omega \quad x = \frac{\omega}{r} \\
 -x + r &= -r x + 1 \\
 x &= \omega \quad y = -1 \\
 -x + r &= r x - r \\
 x &= 1 \\
 y &= 1
 \end{aligned}$$

$$\begin{aligned}
 \frac{\omega + \frac{\omega}{r}}{r} &= \frac{10}{r} \\
 \frac{-1 + \frac{r}{r}}{r} &= \frac{r}{r} \\
 \frac{|-1 - 1 + r|}{\sqrt{r}} &= \frac{r}{\sqrt{r}} \\
 \frac{\frac{\omega \sqrt{r}}{r}}{\frac{r}{\sqrt{r}}} &= \frac{\omega}{r} \quad \checkmark
 \end{aligned}$$

$$\frac{|ax + by + c|}{\sqrt{a^2 + b^2}} = \sqrt{r_0} \quad \frac{|c|}{\sqrt{\frac{1}{F} + 1}} = \sqrt{r_0} \quad |c| = \sqrt{r_0 + a} \quad |c| = \omega$$

$$\begin{aligned}
 y &= \frac{1}{r} x + \omega \quad x=0 \quad y=\omega \quad \begin{bmatrix} 0 \\ \omega \end{bmatrix} \quad 0 = \frac{1}{r} x + \omega \quad x=10 \quad y=0 \\
 \begin{bmatrix} 10 \\ 0 \end{bmatrix} & \quad \sqrt{(10-0)^2 + (0-\omega)^2} = \sqrt{10\omega} \quad \checkmark
 \end{aligned}$$

$$\begin{aligned}
 y &= (1-m)x + r \quad x=0 \quad y=r \quad \frac{-r}{1-m} = x \\
 y &= \frac{r}{m} x + r \quad x=0 \quad y=r \quad x = -\frac{m}{r} \quad y=0
 \end{aligned}$$

$$\begin{aligned}
 A &= (0,0) \\
 B &= (0,r) \\
 C &= \left(-\frac{m}{r}, 0\right), \quad C_r = \left(-\frac{r}{1-m}, 0\right)
 \end{aligned}$$

$$(-r + \sqrt{a})(-r - \sqrt{a}) \times r = -r \quad \checkmark$$

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

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

$$\begin{aligned}
 r - m + m^2 &= a - am \\
 m^2 + rm - 1 &= 0 \\
 m &= -r \pm \sqrt{a} \\
 m^2 - 4m + 4 &= 0 \\
 (m-2)^2 &= 0 \quad m=2
 \end{aligned}$$

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

$$|r + r - r| = |r + r + c'|$$

$$r = |r + c'|$$

$$c' = -r, -r$$

$$\boxed{y = rx - r} \quad \checkmark$$

$$y = x + \omega \quad x - y + \omega = 0$$

$$x' = m_1 - \frac{rA(Ax_1 + By_1 + c)}{A^2 + B^2}$$

$$Ax + By + C = 0$$

$$x' = 1 - \frac{r \times 1 \times r}{r} = -r \quad \checkmark$$

$$\begin{aligned}
 A &= 1 \\
 B &= -1 \\
 C &= \omega
 \end{aligned}$$

$$y' = y_1 - \frac{rB(Ax_1 + By_1 + c)}{A^2 + B^2}$$

$$y' = r - \frac{r(-1)(r)}{r} = r \quad \checkmark$$

$$(m_1, y_1) = (1, r)$$

$$r - a = r - (r) = 0 \quad \boxed{10} \quad \checkmark$$

$$Ax + By + C = 1 \times 1 + -1 \times r + \omega = r \quad A^2 + B^2 = r$$