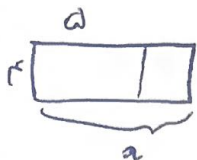


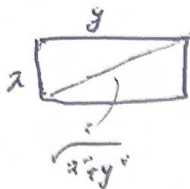
بازرسی

مسئله



$$\frac{r}{r} = \frac{\sqrt{a+1}}{r} \quad a = r(\sqrt{a+1})$$

$$\frac{r}{r} = \frac{r}{r} = \frac{r(\sqrt{a+1})}{a} = 0, r(\sqrt{a+1}) = \frac{r\sqrt{a}}{1} + \frac{r}{1} = \frac{r\sqrt{a}+r}{1}$$



$$\frac{\sqrt{x^2+y^2}}{y} = \frac{1+\sqrt{a}}{r} \implies \frac{x^2+y^2}{y^2} = \frac{y+r\sqrt{a}}{r}$$

$$1 + \frac{x^2}{y^2} = \frac{y+r\sqrt{a}}{r}$$

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

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

$$\sqrt{r^2+a} = r - r\sqrt{a}$$

$$r\sqrt{a} + r\sqrt{a} = r + r\sqrt{a} - r\sqrt{a}$$

$$r\sqrt{a} - r\sqrt{a} + r = 0$$

$$\frac{1 \pm \sqrt{1+a}}{1} = \frac{r}{r} = \left(\frac{r}{r}\right)$$

$$\frac{r}{r} = \frac{q}{r} = \frac{q}{r} = \left(\frac{q}{r}\right)$$

$$\frac{r\sqrt{a+1} - \sqrt{a+1} - \sqrt{a+1} + r\sqrt{a+1}}{q - (a-1)} \implies \frac{-\sqrt{a+1}}{1-a} = \frac{(\sqrt{a+1})(\sqrt{a+1})}{(a-1)}$$

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

$$r\sqrt{a+1} = a - 1 \implies a^2 - 2ra + 1 = 0 \implies a^2 - 2ra + 1 = 0$$

$$\frac{r \pm \sqrt{4r^2 - 4r}}{2r}$$

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$$\frac{1}{r+\sqrt{r+2}} - \frac{1}{r-\sqrt{r+2}} = \frac{(\cancel{r+2})(\cancel{r+2})}{\omega \sqrt{r+2}}$$

-d

$$\frac{\cancel{x-\sqrt{r+2}}}{\omega(r+2)} = \frac{\cancel{r+2}}{\omega} \Rightarrow \frac{-\sqrt{r+2}}{r+2} = \frac{\sqrt{r+2}}{\omega}$$

$$\frac{(\sqrt{r+2})(\sqrt{r+2})}{-1 \cdot \sqrt{r+2}} = \frac{\sqrt{r+2}}{\omega}$$

دارد $\omega = -\sqrt{r+2}$

$$\frac{1}{2^r} + \frac{1}{(1-2)^r} = \frac{14}{9}$$

-g

$$9 - 18 \cdot 2^r + 9 \cdot 2^{2r} = (2^r)^2 - 12 \cdot 2^r + 9$$

$$12 \cdot 2^r - 12 \cdot 2^r + 12 \cdot 2^r - 18 \cdot 2^r + 9 = 0$$

$$S = -\frac{b}{a} = \frac{12}{14} = \frac{6}{7}$$

مجموع ریشه ها

$$-x^2 + 4x - 1 > 0$$

$$\frac{-4 \pm \sqrt{16 - 4}}{-2} < x < \frac{4 \pm \sqrt{16 - 4}}{-2}$$

9.10

$$\frac{r}{x+1} + \frac{f}{x+2} = 0$$

①

$$-x^2 + 4x - 1 > 0$$

$$\begin{array}{c|c|c|c|c} -1 & 4 & -1 & 0 & 0 \\ \hline -1 & 0 & 4 & 0 & 0 \end{array}$$

$$\frac{(2-x)(-x^2+4x-1)}{\omega - \omega}$$

$$\frac{-x^2 + 4x - 1}{-x^2 + 4x - 1}$$

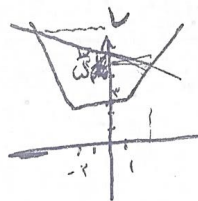
②

$$\textcircled{1}, \textcircled{2} \Rightarrow \{x\}$$

$$\textcircled{x=f} \leftarrow \textcircled{1}$$

$$\frac{f}{x} + \frac{f}{x} = 4$$

$$y = |x+2| + |x-1|$$



9.11

$$y = -\frac{1}{r}x + \frac{14}{r}$$

-1

$$x + 2 + 1 = 2x + 1 = -\frac{1}{r}x + \frac{14}{r}$$

$$\frac{3}{r}x = \frac{12}{r}$$

$$\textcircled{x=4} \quad \textcircled{y=0}$$

$$\frac{(\sqrt{r+2})^2}{t} + \frac{(\sqrt{r+2})^2}{ry} = \frac{r}{f}$$

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

$$-2x - 3 = -\frac{1}{r}x + \frac{14}{r}$$

$$-\frac{2}{r}x = \frac{14}{r} - \frac{1}{r}x$$

$$\textcircled{x=-f}$$

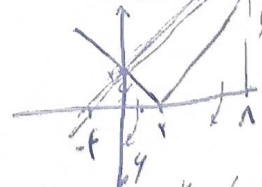
$$y = |x-2|$$

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

$$\frac{r}{r-2} \cdot \frac{r}{r-2}$$

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

$$\frac{x}{r} - \frac{2}{r} = 2 \quad x=1$$



$$S = \frac{4}{r} \cdot \frac{4}{r} - \left(\frac{4}{r} + \frac{4}{r} \right) = \frac{16}{r^2} - \frac{8}{r}$$

-9

$$\frac{1}{x} + \frac{1}{x+9} = \frac{1}{y}$$

-1-

$$y \cdot x + 1 \cdot x + y \cdot x = x^2 + 9x \Rightarrow x^2 - y^2/x + 1 \cdot x = 0$$

$$\begin{matrix} (x-y)(x+y) \\ \downarrow \quad \downarrow \\ xy \quad -y \end{matrix}$$

$$\Rightarrow \boxed{x=xy}$$