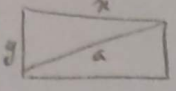


$$\frac{x}{y} = \frac{a}{t} \Rightarrow xy = \frac{a}{t} y^2 \quad \frac{x+b}{y} = \frac{1+\sqrt{a}}{t} = \frac{x}{y} + \frac{b}{y} = \frac{1+\sqrt{a}}{t}$$

$$\Rightarrow \frac{b}{y} = \frac{1+\sqrt{a}-a}{t} = \frac{1+\sqrt{a}-a}{t} \quad s' = by = \frac{1+\sqrt{a}-a}{t} y^2 \quad s_t = s + s' =$$

$$y^2 \left(\frac{1+\sqrt{a}-a}{t} + \frac{a}{t} \right) = \frac{1+\sqrt{a}}{t} y^2 = \frac{1+\sqrt{a}}{t} y^2 \quad \frac{s_t}{s} = \frac{\frac{1+\sqrt{a}}{t} y^2}{\frac{a}{t} y^2} = \frac{1+\sqrt{a}}{a}$$



$$a = \sqrt{x^2 - y^2} \quad \frac{\sqrt{x^2 - y^2}}{x} = \frac{1+\sqrt{a}}{t} \quad x^2 - y^2 = \frac{(1+\sqrt{a})^2}{t^2} x^2$$

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

در هیچ مستطیلی نسبت قطر به طول عدد صحیحی است \Rightarrow طول بزرگتر از عرض است. اینگونه نمی تواند باشد.

$$2a - t = -\sqrt{2a^2 - ta} \quad 4a^2 + t - 12a = 2a^2 - ta$$

$$\sqrt{4a^2 - 14a + t} = 0 \quad a^2 - 14a + 6a = 0 \quad (a-t)(a-t) = 0$$

$$a = \frac{t}{\sqrt{2}} = r, \quad a = \frac{t}{\sqrt{2}} \quad \text{در هر دو زیر رادیکال 0}$$

$$a = r \quad \frac{a+1}{a} = \frac{r}{r} = 1, a$$

$$a = \frac{r}{\sqrt{2}} \quad \frac{\frac{r}{\sqrt{2}} - \frac{r}{\sqrt{2}}}{\frac{r}{\sqrt{2}}} = \frac{0}{\frac{r}{\sqrt{2}}} = 0$$

$$\frac{2\sqrt{x+1} - (\sqrt{x-1})/(\sqrt{x+1}) - (\sqrt{x-1})(\sqrt{x+1}) - 2\sqrt{x+1}}{a - x + 1} = \sqrt{x-1}$$

$$\frac{2(\sqrt{x-1})(\sqrt{x+1})}{10 - x} = \sqrt{x-1} \quad x-1 = 2\sqrt{x+1}$$

$$x^2 - 20x + 100 = 4x + 4 \quad x^2 - 24x + 96 = (x-14)(x-4) = 0 \quad x = 14, 4$$

$$\frac{x - \sqrt{2x} - \sqrt{2x} - x}{t - 2 + x} = \frac{\sqrt{x-x}}{a} \quad x + t = -10 \quad x = -12 \quad \text{صفر مثبت}$$

صفر مثبت $\sqrt{2-x}$ می توان آن را ساده کرد.
 (اگر صفر باشد خارج $\frac{2-x}{\sqrt{2-x}}$ صفر و صفر تعریف نشده می شود.)

$$r x^r - r x - 1$$

$$\frac{(1-x)^r + x^r}{x^r(1-x)^r} = \frac{x^r - r x + 1 - x^r}{x^r - r x^r + x^r} = \frac{140}{9} \quad 1 \wedge x^r - 1 \wedge x + 9 = 140 x^r - r x^r = 140 x^r$$

$$140 x^r - r x^r + 1 - x^r - 1 \wedge x - 9 = 0 \quad S = -\frac{b}{a} = -\frac{-r x^0}{140} = \frac{r}{140}$$

$$-x + 4x - 1 > 0 \quad -(x-r)/(x-r) > 0 \quad \frac{r}{-d+d} < x < t$$

$$-x^r - r x^r < \omega x - 100 > 0 \quad -x(x-t) + r \omega(x-t) > 0 \quad -(x-r)/(x-a)/(x+d) > 0$$

$$\frac{-\omega}{r+d+d} \quad x \leq -a < x < \omega$$

استنتاج $\rightarrow x = r \Rightarrow \sqrt{t} = \sqrt{14} = t - r \quad \checkmark \Rightarrow a = r \rightarrow \boxed{\frac{0}{1}}$

$$r|x+r| + r|x-1| + x = 1 \quad \checkmark$$

$$x > 1 \rightarrow r x + 4 + r x - r + x = 1 \quad \checkmark \quad x = 1 \quad x = r \quad y = \omega$$

$$r < x < 1 \rightarrow r x - 4 - r x + r + x = 1 \quad x = 1 \quad \times$$

$$x < -r \rightarrow -r x - 4 - r x + r + x = 1 \quad -\omega x = r \quad x = -t \quad y = \checkmark$$

$$AB = \sqrt{\left(\frac{v-\omega}{r}\right)^2 + \left(\frac{-t+r}{r}\right)^2} = \frac{t}{r} \sqrt{r}$$

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

منه...
 $\begin{cases} y = \frac{1}{r}x + r \\ y = x - r \end{cases} \quad \frac{1}{r}x + r = x - r \quad x = r \quad y = 4 \quad b' - b = t \rightarrow \dots$

$$S = \frac{1}{r} \cdot r = 14$$

$$t_B = t_F - 9 \quad t_F = t_B + 9 \quad \frac{1}{t_B} = \frac{1}{t_B + 9} = \frac{1}{r} \quad \frac{r t_B + 9}{t_B + 9 t_B} = \frac{1}{r}$$

$$t_B + 9 t_B = r t_B + 1 \wedge 0 \quad t_B^2 - r t_B - 1 \wedge 0 \quad (t_B - r)(t_B - 1) = 0$$

$$\boxed{t_B = r}$$