

$$x = db \quad y = cgr$$

$$\frac{x}{y} = \frac{d}{\varepsilon} \rightarrow y = fh \quad x = dk \rightarrow x_i = fh \times dk \times f_k^r$$

$$\frac{x'}{y} = \frac{1+\sqrt{d}}{f^r} \rightarrow y = fh \rightarrow x' = fh(1+\sqrt{\frac{d}{f}}) \Rightarrow x_r = fh \times fh(1+\sqrt{\frac{d}{f}})$$

$$\frac{x_r}{y_r} = \frac{fh(1+\sqrt{\frac{d}{f}})}{f \cdot k^r} = \frac{f}{d} (1+\sqrt{\frac{d}{f}}) = \frac{f}{d} (1+\sqrt{d})$$

$$\frac{x}{db} = \frac{1+\sqrt{d}}{f} \rightarrow \frac{\sqrt{x^r + y^r}}{x} = 1+\sqrt{\frac{d}{f}} \rightarrow \frac{x^r + y^r}{x^r} = \frac{(1+\sqrt{\frac{d}{f}})^r}{\varepsilon} \Rightarrow \frac{y^r}{x^r} = \frac{(1+\sqrt{\frac{d}{f}})^r - \varepsilon}{f} \quad (2)$$

$$\frac{y^r}{x^r} = \frac{1+d+\sqrt{d}-\varepsilon}{\varepsilon} \Rightarrow \frac{1+\sqrt{d}}{f} = \frac{y^r}{x^r} \rightarrow \frac{x^r}{y^r} = \frac{f}{1+\sqrt{d}}$$

$$x \rightarrow db \quad y \rightarrow cgr$$

$$fa + \sqrt{fa^2 + \varepsilon a} = f \rightarrow \sqrt{fa^2 + \varepsilon a} = f - fa \xrightarrow{\text{تکلیف}} fa^2 + \varepsilon a = f^2 + fa^2 - 12a$$

$$fa^2 - 12a + \varepsilon = 0 \xrightarrow{\text{فصل}} a^2 - 12a + 11 \rightarrow (a-1)(a-11)$$

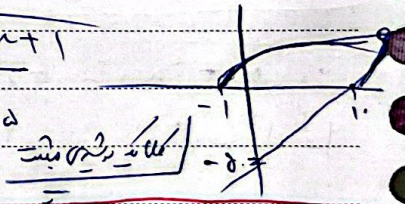
$$\frac{a+1}{a} = \frac{\frac{f+\varepsilon}{f}}{\frac{\varepsilon}{f}} = \left[\frac{\varepsilon}{f} \right] \quad \text{از طرف دیگر} \quad \left[\frac{a}{\varepsilon} \right]$$

$$\frac{\sqrt{x+1}}{\sqrt{x-1}+f} - \frac{\sqrt{x+1}}{f-\sqrt{x-1}} = \frac{a-1}{\sqrt{x-1}} \Rightarrow \frac{(\sqrt{x+1})(f-\sqrt{x-1}) - (\sqrt{x+1})(\sqrt{x-1}+f)}{f-(x-1)} = \frac{a-1}{\sqrt{x-1}}$$

$$\frac{(\sqrt{x+1})(f-\sqrt{x-1}-\sqrt{x-1}-f)}{f-x+1} = \frac{-2\sqrt{x^2-1}}{1-x} = \frac{(\sqrt{x-1})^2}{\sqrt{x-1}} = \sqrt{x-1}$$

$$(1-x)(\sqrt{x-1}) = -2(\sqrt{x-1})(\sqrt{x+1}) \rightarrow 1-x = -2\sqrt{x+1}$$

$$\sqrt{x+1} = \frac{x}{2} - d$$



$$\frac{1}{\sqrt{x-n}+f} - \frac{1}{f-\sqrt{x-n}} = \frac{f-n}{2\sqrt{x-n}}$$

$$\frac{f-\sqrt{x-n}-\sqrt{x-n}-f}{f-x+n} = \frac{(\sqrt{x-n})^2}{2\sqrt{x-n}} \Rightarrow \frac{-2\sqrt{x-n}}{f-x+n} = \frac{f-n}{2\sqrt{x-n}} \quad \text{جواب مثبت ندارد}$$

$$-1 \cdot (f-n) = f-n^r \Rightarrow -f+1 \cdot n = f \cdot n^r \quad \rightarrow n = -12 \quad \text{و } \varepsilon$$

$$x^r + 1 \cdot n - f\varepsilon \Rightarrow (n+12)(n-2) = 0 \rightarrow n = 2 \quad \text{و } \varepsilon$$

Subject :

Year. Month. Date. ()

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

$$\frac{r+1}{t^r} = \frac{14}{9}$$

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

$$\rightarrow t = \dots, r = \dots, \frac{14}{9}$$

$$\left(\frac{1}{n}\right)^r + \left(\frac{1}{1-n}\right)^r = \frac{14}{9} \Rightarrow \left(\frac{1}{n} + \frac{1}{1-n}\right)^r = r \left(\frac{1}{n} \times \frac{1}{1-n}\right)^r$$

$$\frac{1-n+n}{n-n^r} = \frac{r}{n-n^r} = \frac{1}{n-n^r} = \frac{14}{9} \rightarrow \frac{-1}{n-n^r} = \frac{14}{9}$$

$$14n - 14n^r = -9 \rightarrow 14n^r - 14n - 9 = 0 \quad g = \frac{-b}{a} = \frac{14}{14} = 1$$

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$$\sqrt{n^r + \sqrt{-n^r + 4n - 1}} + \sqrt{n^r + \sqrt{-n^r + 4n - 1}} = n + r$$

$$-n^r + 4n - 1 \geq 0 \rightarrow n^r - 4n + 1 \leq 0 \rightarrow (n-1)(n-3) \leq 0 \quad \frac{r}{r+1} \rightarrow [1, 3]$$

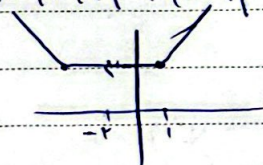
$$\sqrt{-n^r + 4n - 1} \Rightarrow -n^r + 4n - 1 \geq 0 \rightarrow n^r - 4n + 1 \leq 0$$

$$(n^r - 4n + 1) = (n^r - 1) \leq 0 \rightarrow n(n-1)(n+1) - r(n-1)(n+1)$$

$$(n-1)(n+1)(n-1) \leq 0 \rightarrow \frac{-1}{1+1-1} = (-\infty, 0] \cup [1, 3]$$

$$① ② \rightarrow ③ \quad \sqrt{r+1} + \sqrt{14+1} = r+1 = 4 \quad \text{درد}$$

$$y = |n+r| + |n-1| \rightarrow \text{درد}$$



$$\frac{-r}{-r-1} \quad \frac{1}{r} \quad \frac{r}{r+1}$$

$$ry + n = 14 \rightarrow y = -\frac{1}{r}n + \frac{14}{r}$$

$$n+1 = -\frac{1}{r}n + \frac{14}{r} \Rightarrow n \leq r$$

$$-rn - 1 = -\frac{1}{r}n + \frac{14}{r} \Rightarrow n \leq -2$$

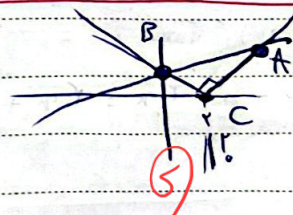
$$AB = \sqrt{(r)^2 + (1)^2} = \sqrt{2} = r\sqrt{1.5}$$

$$y = \sqrt{n^r + 4n - 1} \Rightarrow \sqrt{(n-r)^2} = |n-r|$$

$$y = \frac{1}{r}n + r$$

$$r + \frac{1}{r}n = n - r \rightarrow n = 1$$

$$\frac{r}{-n+r} = \frac{r}{n-r} \Rightarrow \frac{r}{n-r} = \frac{r}{n-r}$$



$$AC = \sqrt{qr + ar} = 4\sqrt{r}$$

$$BC = \sqrt{r^2 + r^2} = r\sqrt{2}$$

$$\frac{1}{n} + \frac{1}{n+9} = \frac{1}{r}$$

$$r \cdot (n+9) + r \cdot n = n(n+9) \rightarrow rn + 11n + r - n = n^2 + 9n \rightarrow n^2 - rn + 11n - r = 0$$

$$(n-11)(n+1) = 0$$

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$$n = 11$$