

نام و نام خانوادگی: فرشته بیستارانی پاسخنامه تشریحی تکلیف شماره ۱۸! کلاس: یازدهم دبیرستان:

$$\frac{\sqrt{5}+1}{2} = \frac{طرد}{فک} \rightarrow طرد_r = 2k(\sqrt{5}+1) \quad طرد_1 = 5k$$

$$\rightarrow \frac{5r}{51} = \frac{2\sqrt{5}+2(k)}{5} \quad \frac{5r}{51} = \frac{2\sqrt{5}+2}{5} \quad \checkmark$$

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طرد } $\sqrt{x^2+y^2} = \frac{\sqrt{5}+1}{2} \rightarrow 2\sqrt{x^2+y^2} = (\sqrt{5}+1)y$

$$\rightarrow 4x^2 + 4y^2 = 4y^2 + 2\sqrt{5}y \rightarrow 4x^2 = 2\sqrt{5}y$$

$$\rightarrow \left\{ \frac{4}{2+2\sqrt{5}} = \frac{y}{x^2} \right\} \quad \checkmark$$

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$$3a + \sqrt{4a^2 + 4a} = 2 \rightarrow 4a^2 + 4a = 4a^2 - 12a + 4$$

$$\rightarrow 8a^2 - 16a + 4 = 0 \rightarrow (a-1)(a-2) \rightarrow \frac{1}{2}, \frac{1}{4} \rightarrow$$

$$a < 2 \rightarrow a = \frac{1}{4} \rightarrow 9 + \sqrt{0} = 2 \quad \checkmark$$

$$\rightarrow a = \frac{1}{4} \rightarrow \frac{9}{4} = \frac{a}{2} \rightarrow (9, 5) \quad \checkmark$$

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

$$n \neq 1, -2\sqrt{n+1} = 1 - n \rightarrow 4n + 4 = 1 - 2n + 1 \rightarrow 6n = -2$$

$$\rightarrow n^2 - 4n + 10 = 0 \rightarrow \Delta = 16 - 40 = -24 < 0 \rightarrow \text{پاسخ: } \emptyset \quad \checkmark$$

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

$$n \neq 2, -10 = 2+n \rightarrow n = -12$$

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$$\checkmark, 1, 1, 1, 1, 0$$

$$\frac{1}{n^r} \sim \frac{1}{(1-n^r)} \sim \frac{14}{9} \rightsquigarrow \frac{r n^r - r n + 1}{n^r (n-1)^r} = \frac{14}{9} \rightsquigarrow 140 n^r - r^2 n^r - 14 r n^r + 14 n - 9 = 0$$

$$\rightsquigarrow \xi = -\frac{b}{a} \rightarrow \frac{r^2}{14} = 2 \quad \checkmark$$

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$$\sqrt{n} + \sqrt{-n^r + r n^r + r^2 n - 14} + \sqrt{n^r + \sqrt{-n^r + 4 n - 14}} = n + r$$

$$-(n-r)(n-1)(n+1) \quad -(n-r)(n-1) \rightarrow D_1 = \frac{r}{-1+1} = \frac{r}{0}$$

$$L, D_2 = \frac{-0}{r} - \frac{\xi}{1} = -\frac{\xi}{1} \rightarrow D_1 \wedge D_2 = \xi$$

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$$\rightarrow \sqrt{\xi + 0} + \sqrt{14 + 0} = 4 \rightarrow \xi + r = 4 \rightarrow \boxed{n = \xi} \quad \checkmark$$

$$y = |n+r| + |n-1| \quad y = -\frac{1}{r}n + \frac{14}{r}$$

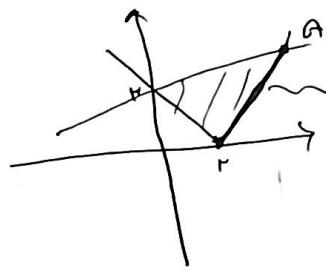
$$\rightarrow -\frac{1}{r}n + \frac{14}{r} = r n + 1 \rightarrow \frac{14}{r} = \frac{r}{r}n \rightarrow n = \frac{14}{r}, y = \frac{14}{r} \quad \checkmark$$

$$\rightarrow -\frac{1}{r}n + \frac{14}{r} = -r n - 1 \rightarrow \frac{r}{r} = -\frac{14}{r}n \rightarrow n = -\frac{r}{14}, y = \frac{r}{14} \quad \checkmark$$

$$\rightarrow \boxed{\sqrt{(-r-r)^r + (14-2)^r} = \boxed{2\sqrt{10}}}$$

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$$y = \sqrt{n^r - r n + r} = \sqrt{(n-r)^r} \rightarrow y = |n-r|$$



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

$$[\begin{smallmatrix} r \\ 0 \end{smallmatrix}], [\begin{smallmatrix} 0 \\ r \end{smallmatrix}], [\begin{smallmatrix} 1 \\ 1 \end{smallmatrix}]$$

$$\xi = \frac{1}{r} \begin{vmatrix} 0 & r & 1 \\ r & 0 & 1 \\ 1 & 1 & 1 \end{vmatrix} = \frac{1}{r} (r \xi) = 1 \quad \checkmark$$

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$$r \rightarrow n \quad r \rightarrow n+9 \quad r \rightarrow r$$

$$\frac{1}{n} + \frac{1}{n+9} = \frac{1}{r} \rightarrow \frac{r n + 9}{n^2 + 9 n} = \frac{1}{r} \rightsquigarrow r^2 n + 14 = n^2 + 9 n \rightarrow n^2 - r^2 n - 14 = 0$$

$$\rightsquigarrow (n - r^2)(n + 14) = 0 \rightarrow n = r^2, -14 \rightarrow \boxed{C \cos 34} \quad \checkmark$$

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