

$$tn = \underbrace{5, 9, 13, 17}_{+4, +4, +4} \Rightarrow a_n = \frac{f(n+1)}{\text{جدولی}}$$

$$a_1 = \frac{f(1+1)}{f} = \underline{f1}$$

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$$tn = \underbrace{5, 9, 13, 17, \dots}_{+4, +4, +4} \Rightarrow a_n = f(n+2) / sn = \frac{n}{2} [2a_1 + (n-1)d] \Rightarrow$$

$$s_1 = \frac{1}{2} \left[ \frac{(5+13)}{2} + \frac{(9+17)}{2} \right] = \underline{24}$$

$$\underbrace{118 + 112 + 106 + 100}_{258} = \underline{296}$$

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$$\underbrace{5, 9, 13, \dots}_{+4} \Rightarrow 13n+1. \quad (13n+1) \Rightarrow \frac{13 \times 11}{128} - 10 = 118 \Rightarrow$$

$$1+\sqrt{2}, 1, 2-\sqrt{2}, \dots \Rightarrow a_1 - a_2 = a_3 - a_4 \Rightarrow 1 - (1+\sqrt{2}) = 2 - \sqrt{2} - 1$$

$$\Rightarrow 1 - \sqrt{2} = 1 - \sqrt{2} = d / a_{22} = a_1 + 21d, a_{25} = a_1 + 24d \Rightarrow a_{22} - a_{25} = a_1 + 21d - (a_1 + 24d) = -3d \Rightarrow -2 \times (1 - \sqrt{2}) = \underline{-2 + 2\sqrt{2}}$$

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$$a_n = a^{\frac{1}{2}}; \underbrace{2 \times a^{\frac{1}{2}}}_{+d}, a^{\frac{3}{2}} \Rightarrow a_2 - a_1 = a_3 - a_2 \Rightarrow (2 \times a^{\frac{1}{2}}) - (a^{\frac{1}{2}}) = (a^{\frac{3}{2}}) - (2 \times a^{\frac{1}{2}})$$

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

$$a^{\frac{1}{2}} \Rightarrow y = \frac{2x+1}{bn} = \frac{2x+1}{2x+1} \Rightarrow 2-x = \frac{2}{2x+1} \Rightarrow 2-x = 2x-1 \Rightarrow 2=3x \Rightarrow x=1$$

$$\Rightarrow y = \frac{2 \times 1 + 1}{1 \times 2} = \underline{3}$$

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$$2x-2, 2x-1, 2x, \dots \Rightarrow 2(2x-1) = 2x-2 + 2x \Rightarrow 4x-2 = 4x-2 \Rightarrow 2=2x \Rightarrow$$

$$x = \frac{1}{2} / \left( \frac{2x+1}{1} \right) - 2 = -2 / \left( \frac{2x+1}{1} \right) - 1 = 0 / \frac{2x}{1} = 2 \Rightarrow \underbrace{-2 + 0 + 2}_{+2, +2, +2} = \underline{2}$$

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5, 11, 17, 23, 29, 35, 41

$$\begin{aligned} a_1 + a_2 + a_3 &= 10 \Rightarrow a_1 + a_1 + r d + a_1 + r d = 3a_1 + 2r d = 10 \Rightarrow a_1 + d = \frac{10}{3} \Rightarrow 3a_1 + 3r d = 10 \\ a_2 + a_3 &= 10 \Rightarrow a_1 + r d + a_1 + r d = 2a_1 + 2r d = 10 \Rightarrow \underbrace{2a_1 + 2r d + 2r d}_{10} = 10 \Rightarrow 2d = 10 \\ \Rightarrow d &= 5 \Rightarrow a_1 + 5 = 10 \Rightarrow a_1 = 5 / a_1 = a_1 + \frac{1}{9} d = 5 + \left( \frac{5}{9} \right) = \frac{50}{9} \end{aligned}$$

$$a_1 = 11/a_V = r_d \Rightarrow d = \frac{a_m - a_n}{m - n} = \frac{r_d - 11}{1 - 1} = r_d / a_V = \frac{r_d}{11} + \frac{r_d}{11} = r_d$$

$$r_d, 0, 0, \emptyset, 0, \dots, 11 \Rightarrow d = \frac{a_m - a_n}{m - n} = \frac{r_d - 11}{1 - 1} = -d$$