

نام و نام خانوادگی پاسخنامه تشریحی تکلیف شماره ۱۲... کلاس B

$$t_n = \underbrace{17}_{+4} \text{ و } \underbrace{13}_{+4} \text{ و } \underbrace{9}_{+4} \text{ و } \underbrace{5}_{+4} \text{ و } \dots$$

$$F_{n+1}$$

(الف)

$$f(10) + 1 = 41$$

(ب)

$$t_n = \underbrace{19}_{+4} \text{ و } \underbrace{15}_{+4} \text{ و } \underbrace{11}_{+4} \text{ و } \underbrace{7}_{+4} \text{ و } \dots$$

$$S_n = \frac{n}{2}(a_1 + a_n) = \frac{n}{2}(a_1 + (n-1)d)$$

(الف)

$$F_{n+2} = \text{جمله بعدی}$$

$$S_1 = a(4+42) = 240$$

$$F_0 + 2 = 42 = 40$$

$$S_{21} = 14(4+42) = 476$$

$$F \times 1 = 21$$

$$S_{32} = 16(4+42) = 408 \quad 408 - 476 = 132$$

$$t_n = 1 + \sqrt{3} \text{ و } 2 \text{ و } -\sqrt{3} \text{ و } \dots$$

$$d = 1 - \sqrt{3}$$

$$d = a_p - a_{p-1} = 2 - \sqrt{3} - 1 = 1 - \sqrt{3}$$

$$a_n = a_1 + (n-1)d = n(1 - \sqrt{3}) + 2\sqrt{3}$$

$$n_{23} = 23(1 - \sqrt{3}) + 2\sqrt{3} = 23 - 23\sqrt{3} + 2\sqrt{3} = 23 - 21\sqrt{3}$$

$$n_{40} = 40(1 - \sqrt{3}) + 2\sqrt{3} = 40 - 40\sqrt{3} + 2\sqrt{3} = 40 - 38\sqrt{3}$$

$$23 - 21\sqrt{3} - 23 + 21\sqrt{3} =$$

$$2 - 2\sqrt{3}$$

$$a_n = a^{2x}, a^{3x}, a^{4x} \text{ و } a^y$$

$$\frac{a^{2x} + a^y}{2} = 3 \times 2a^x$$

$$2a^x + a^y = 4 \times 2a^x$$

$$a^y = a^m \times a^1 \rightarrow 2m+1 = y$$

$$b_n = a \text{ و } 2a \text{ و } y$$

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

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$$x+y = 4$$

$$I \cap II \rightarrow x=1, y=3 \rightarrow xy=3$$

$$2ax - 4 \text{ و } 2ax - 1 \text{ و } 4ax \text{ و } \dots$$

$$\Rightarrow 2x - \frac{1}{x} - 4 = -1 - 4 = -5$$

$$\frac{4ax + 2ax - 4}{2} = 2ax - 1$$

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

$$4ax + 2ax - 4 = 4ax - 4$$

$$2x - \frac{1}{x} = -3$$

$$\frac{-a - 2a - 3}{2} = \frac{-3a - 3}{2}$$

$$2ax = 4$$

$$ax = \frac{1}{2}$$

$$\rightarrow -3, 0, 3$$

$$a_n = -3 + (n-1)3 = 3n - 6 \rightarrow a_4 = 3(4) - 6 = 6$$