

~ 730

$$(C_n) - a.n.$$

$$C_1 = 17, d = -2, S_{18} = ?$$

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

$$S_{18} = \frac{2 \cdot C_1 + 17 \cdot d}{2} \cdot 18$$

$$S_{18} = \frac{2 \cdot 17 + 17 \cdot (-2)}{2} \cdot 18 =$$

$$= (34 - 34) \cdot 9 = 0$$

$$B. : \underline{S_{18} = 0}$$

$$\sim 732(1)$$

$$2; -1; -4; \dots - a.n.$$

$$S_{20} = ?$$

$$a_1 = 2, a_2 = -1$$

$$d = a_2 - a_1 = -1 - 2 = -3$$

$$S_{20} = \frac{2 \cdot a_1 + 19 \cdot d}{2} \cdot 20$$

$$S_{20} = \frac{2 \cdot 2 + 19 \cdot (-3)}{2} \cdot 20 =$$

$$= (4 - 57) \cdot 10 = -53 \cdot 10 = -530$$

$$B: \underline{S_{20} = -530}$$

~ 734

$$(x_n) - a.n.$$

$$x_n = -5n + 17, \quad S_{60} = ?$$

$$\underline{x_1} = -5^{\cdot 1} + 17 = \underline{12}$$

$$\underline{x_2} = -5^{\cdot 2} + 17 = \underline{7}$$

$$\underline{d} = x_2 - x_1 = 7 - 12 = \underline{-5}$$

$$S_{60} = \frac{2 \cdot x_1 + 59 \cdot d}{2} \cdot 60$$

$$S_{60} = \frac{2 \cdot 12 + 59 \cdot (-5)}{2} \cdot \cancel{60}^{30} =$$

$$= (24 - 295) \cdot 30 =$$

$$= -271 \cdot 30 = -8130$$

$$B: \quad \underline{S_{60} = -8130}$$

$$\sim 736(1)$$

$$1; 2; 3; \dots; 40$$

$$(a_n) - a.n.$$

$$a_1 = 1, a_2 = 2, a_{40} = 40, S_{40} = ?$$

$$S_n = \frac{a_1 + a_n}{2} \cdot n \quad \leftarrow \text{первая формула}$$

$$S_{40} = \frac{1 + 40}{2} \cdot 40 =$$

$$= (1 + 40) \cdot 20 = 41 \cdot 20 = 820$$

$$B: \underline{S_{40} = 820}$$