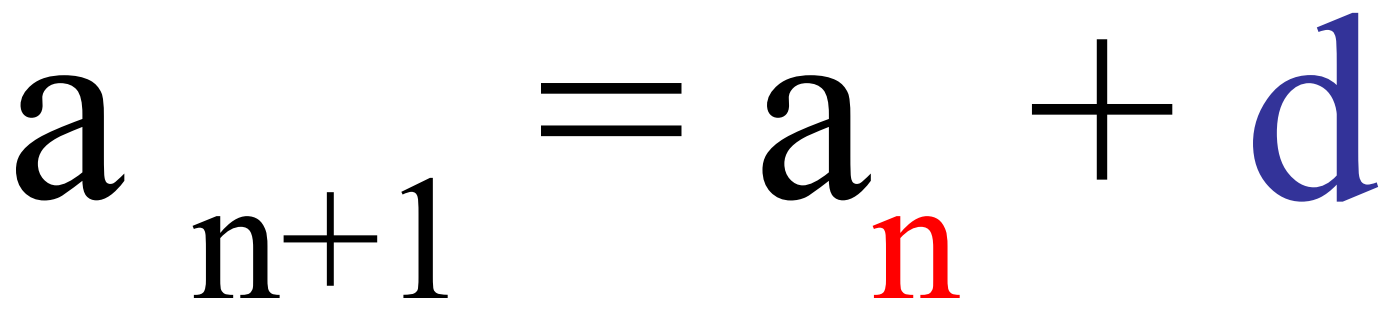
Числовые последовательности

Примеры для закрепления материала


a n+1 = a n + d

$$a_{n+1} = a_n + 8$$

$$d = 8$$

$$a_{n+1} = a_n - 10$$

$$d = -10$$

$$a_{n+1} = a_n + 4$$

$$d = 4$$

$$a_{n+1} = a_n - 25$$

$$d = -25$$

$$a_{n+1} = a_n + 2$$

$$d = 2$$

$$a_{n+1} = a_n - 1$$

$$d = -1$$

$$a_{n+1} = a_n + 25$$

$$d = 25$$

$$a_{n+1} = a_n - 3$$

$$d = -3$$

$$2; 4; 6; 8; \ldots$$

$$d = 2$$

$$d = a_2 - a_1 = 4 - 2$$

$$4; 9; 14; 19; \ldots$$

$$d = 5$$

$$d = a_2 - a_1 = 9 - 4$$

$$10; 7; 4; 1; \ldots$$

$$d = -3$$

$$d = a_2 - a_1 = 7 - 10$$

$$3; 7; 11; 15; \ldots$$

$$d = 4$$

$$d = a_2 - a_1 = 7 - 3$$

20; 15; 10; 5; . . .

$$d = -5$$

$$d = a_2 - a_1 = 15 - 20$$

$$11; 8; 5; 2; \ldots$$

$$d = -3$$

$$d = a_2 - a_1 = 8 - 11$$

$$-5;\ -3;\ -1;\ 1;\ \ldots$$

$$d = 2$$

$$d = a_2 - a_1 = -3 - (-5)$$

$$= -3 + 5 = 2$$

$$-8;\ -6;\ -4;\ -2;\ \ldots$$

$$d = 2$$

$$d = a_2 - a_1 = -6 - (-8)$$

$$= -6 + 8 = 2$$

$$a_{n+1} = a_n + 8$$

$$d = 8$$

$$2; 4; 6; 8; \ldots$$

$$d = 2$$

$$d = a_2 - a_1 = 4 - 2$$

$$a_{n+1} = a_n - 10$$

$$d = -10$$

$$4; 9; 14; 19; \ldots$$

$$d = 5$$

$$d = a_2 - a_1 = 9 - 4$$

$$a_{n+1} = a_n + 4$$

$$d = 4$$

$$10; 7; 4; 1; \ldots$$

$$d = -3$$

$$d = a_2 - a_1 = 7 - 10$$

$$a_{n+1} = a_n - 25$$

$$d = -25$$

$$3; 7; 11; 15; \ldots$$

$$d = 4$$

$$d = a_2 - a_1 = 7 - 3$$

$$a_{n+1} = a_n + 7$$

$$d = 7$$

20; 18; 16; 14; . . .

$$d = -2$$

$$d = a_2 - a_1 = 18 - 20$$

$$a_{n+1} = a_n - 1$$

$$d = -1$$

$$11; 7; 3; -1; \ldots$$

$$d = -4$$

$$d = a_2 - a_1 = 7 - 11$$

$$a_{n+1} = a_n + 28$$

$$d = 28$$

$$-5;\ -1;\ 3;\ 7;\ \ldots$$

$$d = 4$$

$$d = a_2 - a_1 = -1 - (-5)$$

$$= -1 + 5 = 4$$

$$a_{n+1} = a_n - 3$$

$$d = -3$$

$$-8;\ -5;\ -2;\ 1;\ \ldots$$

$$d = 3$$

$$d = a_2 - a_1 = -5 - (-8)$$

$$= -5 + 8 = 3$$

$$a_n = a_1 + d(n-1)$$

$$S_n = \frac{a_1 + a_n}{2} n$$