

Sequence 1 WS**Find the next three terms in each sequence.**

1) $-20, 0, 20, 40, 60, \dots$

2) $-5, -205, -405, -605, -805, \dots$

3) $6, 15, 24, 33, 42, \dots$

4) $-36, -41, -46, -51, -56, \dots$

5) $-2.3, -0.8, 0.7, 2.2, 3.7, \dots$

6) $23, 33, 43, 53, 63, \dots$

Find the first four terms in each sequence.

7) $a_n = 4 \cdot 6^{n-1}$

8) $a_n = -\frac{7}{5} \cdot \left(-\frac{5}{6}\right)^{n-1}$

9) $a_n = -3 \cdot (-2)^{n-1}$

10) $a_n = -4 \cdot 5^{n-1}$

11) $a_n = 6^{n-1}$

12) $a_n = -\left(-\frac{1}{5}\right)^{n-1}$

Find the tenth term in each sequence.

13) $-3, -1, 2, 6, 11, \dots$

14) $3, 9, 27, 81, 243, \dots$

$$15) -1.5, -3, -6, -12, -24, \dots$$

$$16) 1, 2, 6, 24, 120, \dots$$

$$17) -2, 4, -8, 16, -32, \dots$$

$$18) 4, 7, 12, 19, 28, \dots$$

$$19) a_n = -\frac{4}{n+1}$$

$$20) a_n = n^2 + 1$$

$$21) a_n = -\frac{12}{n}$$

$$22) a_n = (2n)^2$$

$$23) a_n = (-2)^n - 2$$

$$24) a_n = n^2$$

Find the first four terms in each sequence.

$$25) a_n = a_{n-1} + 6$$
$$a_1 = -6$$

$$26) a_n = a_{n-1} + 8$$
$$a_1 = -34$$

$$27) a_n = na_{n-1}$$
$$a_1 = -2$$

$$28) a_n = a_{n-1} + 100$$
$$a_1 = -23$$

$$29) a_n = \frac{2 + a_{n-1}}{2}$$
$$a_1 = -14$$

$$30) a_n = a_{n-1} + 30$$
$$a_1 = 20$$