

Introduction to Sequences

Find the next three terms in each sequence.

(1) 1, -3, 9, -27, 81, ...

(2) 0, 3, 6, 9, 12, 15, ...

(3) 0, 16, 36, 64, 100, ...

(4) 1, $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{16}$, ...

Find the next term in each sequence.

(5) -4, $\frac{3}{2}$, $\frac{7}{2}$, 4, $\frac{11}{2}$, ...

(6) -2, -6, -10, -14, -18, ...

(7) -4, 12, -36, 108, -324, ...

(8) -36, 172, 372, 572, 772, ...

Find the first four terms in each sequence.

(9) $a_n = \frac{2n+1}{2^n}$

(10) $a_n = 12n^2$

(11) $a_n = n^2 + 3$

Find the next term in each sequence.

(12) $a_n = \frac{2n+1}{2^n}$

(13) 0, 16, 36, 64, 100, 144, ...

(14) $\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{4}$, $\frac{1}{16}$, ...

(15) 16, 36, 64, 100, 144, ...

(16) -4, 16, -64, 256, -1024, ...

(17) -4, $-\frac{3}{2}$, $-\frac{5}{2}$, -4, $-\frac{9}{2}$, ...

(18) -25, -100, -400, -1600, -6400, ...

(19) -4, -2, 0, 2, 4, $\frac{6}{5}$, ...

(20) 36, 48, 72, 108, 144, 180, ...

(21) $a_n = 2^{n-1}$

(22) $a_n = -2^{n-1}$

(23) $a_n = \frac{n}{2n+1}$

(24) $a_n = 4^{n-1}$

Algebra 2 Arithmetic Sequences Answer Key

Yan Bai



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web dec 9 2013 radioactivity is the decay or rearrangement of an atom's nucleus michael kappel radioactivity is the term given to the breaking up decay or rearrangement of an atom's nucleus decay occurs

3 1 nuclear chemistry and radioactive decay - Jul 15 2023

web as with chemical reactions nuclear reactions are always balanced when a nuclear reaction occurs the total mass number and the total charge remain unchanged nuclei that have unstable n/p ratios undergo spontaneous radioactive decay