

Nth Term of a Linear Sequence

Find the n th term for each of these sequences.

- (a) $-5, -10, -15, -20, -25, \dots$
- (b) $-2, -4, -6, -8, -10, \dots$
- (c) $-8, -16, -24, -32, -40, \dots$
- (d) $-1, -2, -3, -4, -5, \dots$

- (a) $-5n$
- (b) $-2n$
- (c) $-8n$
- (d) $-n$

Find the n th term for each of these sequences.

- (a) $9, 7, 5, 3, 1, \dots$
- (b) $17, 14, 11, 8, 5, \dots$
- (c) $45, 40, 35, 30, 25, \dots$
- (d) $16, 15, 14, 13, 12, \dots$
- (e) $26, 20, 14, 8, 2, \dots$
- (f) $82, 72, 62, 52, 42, \dots$

- (a) $11-2n$
- (b) $20-3n$
- (c) $50-5n$
- (d) $17-n$
- (e) $32-6n$
- (f) $92-10n$

Find the n th term for each of these sequences.

- (a) $6, 1, -4, -9, -14, \dots$
- (b) $5, 2, -1, -4, -7, \dots$
- (c) $3, 1, -1, -3, -5, \dots$
- (d) $8, -2, -12, -22, -32, \dots$
- (e) $-3, -5, -7, -9, -11, \dots$
- (f) $-5, -8, -11, -14, -17, \dots$

- (a) $11-5n$
- (b) $8-3n$
- (c) $5-2n$
- (d) $18-10n$
- (e) $-1-2n$
- (f) $-2-3n$

Find the n th term of each of these sequences.

- (a) $8, 7.6, 7.2, 6.8, 6.4, \dots$
- (b) $6.5, 5.5, 4.5, 3.5, 2.5, \dots$
- (c) $2.8, 1.7, 0.6, -0.5, -1.6, \dots$
- (d) $-3.8, -4.7, -5.6, -6.5, -7.4, \dots$

- (a) $8.4-0.4n$
- (b) $7.5-n$
- (c) $3.9-1.1n$
- (d) $-2.9-0.9n$

Find the n th term of these sequences.

- (a) $a+5, a+3, a+1, a-1, \dots$
- (b) $b-c, b-2c, b-3c, \dots$
- (c) $d, d-3, d-6, d-9, \dots$

- (a) $a+7-2n$
- (b) $b-cn$
- (c) $d+3-3n$