

Arithmetic Sequences

Date _____ Period _____

Determine if the sequence is arithmetic. If it is, find the common difference.

1) 35, 32, 29, 26, ...

$$\begin{array}{c} \downarrow \quad \downarrow \quad \downarrow \\ -3 \quad -3 \quad -3 \end{array}$$

Arithmetic $D = -3$

3) -34, -64, -94, -124, ...

$$\begin{array}{c} \downarrow \quad \downarrow \quad \downarrow \\ -30 \quad -30 \quad -30 \end{array}$$

Arithmetic $D = -30$

5) -7, -9, -11, -13, ...

$$\begin{array}{c} \downarrow \quad \downarrow \quad \downarrow \\ -2 \quad -2 \quad -2 \end{array}$$

Arithmetic $D = -2$

2) -3, -23, -43, -63, ...

$$\begin{array}{c} \downarrow \quad \downarrow \quad \downarrow \\ -20 \quad -20 \quad -20 \end{array}$$

Arithmetic $D = -20$

4) -30, -40, -50, -60, ...

$$\begin{array}{c} \downarrow \quad \downarrow \quad \downarrow \\ -10 \quad -10 \quad -10 \end{array}$$

Arithmetic $D = -10$

6) 9, 14, 19, 24, ...

$$\begin{array}{c} \downarrow \quad \downarrow \quad \downarrow \\ +5 \quad +5 \quad +5 \end{array}$$

Arithmetic $D = 5$

Given the explicit formula for an arithmetic sequence find the first five terms and the term named in the problem.

7) $a_n = -11 + 7n$

Find a_{34}

$$a_{34} = -11 + 7(34)$$

$$a_{34} = 227$$

9) $a_n = -7.1 - 2.1n$

Find a_{27}

$$a_{27} = -7.1 - 2.1(27)$$

$$a_{27} = -63.8$$

8) $a_n = 65 - 100n$

Find a_{39}

$$a_{39} = 65 - 100(39)$$

$$a_{39} = -3,835$$

10) $a_n = \frac{11}{8} + \frac{1}{2}n$

Find a_{23}

$$a_{23} = \frac{11}{8} + \frac{1}{2}(23)$$

$$a_{23} = \frac{183}{8}$$

Given the first term and the common difference of an arithmetic sequence find the first five terms and the explicit formula.

11) $a_1 = 28, d = 10$

$$28, 38, 48, 58, 68$$

$$a_n = 28 + (n-1)10$$

$$a_n = 18 + 10n$$

13) $a_1 = -34, d = -10$

$$-34, -44, -54, -64, -74$$

$$a_n = -34 + (n-1)(-10)$$

$$a_n = -24 - 10n$$

12) $a_1 = -38, d = -100$

$$-38, -138, -238, -338, -438$$

$$a_n = -38 + (n-1)(-100)$$

$$a_n = 62 - 100n$$

14) $a_1 = 35, d = 4$

$$35, 39, 43, 47, 51$$

$$a_n = 35 + (n-1)4$$

$$a_n = 31 + 4n$$

Algebra 2 Arithmetic Sequences Answer Key

Rachel Sandford



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