		Testinar.com	Name:	۱
\checkmark	Arithmetic Sequences		Date:	ļ

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

1)
$$a_1 = 24, d = 2$$

2)
$$a_1 = -10, d = -5$$

3)
$$a_1 = -38, d = 20$$

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

- 4) $a_{38} = -53.2$, d = -1.1
- 5) $a_{37} = 249, d = 8$

6)
$$a_{30} = -38, d = 20$$

Given a term in an arithmetic sequence and the common difference find the recursive formula and the three terms in the sequence after the last one given.

7)
$$a_{22} = -44, d = -2$$

8)
$$a_{12} = 30.6, d = 1.8$$

9)
$$a_{18} = 30, d = 2$$

QUIZ?





Answers

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

1) $a_1 = 24, d = 2$ First five terms: 24,26,28,30,32 Explicit: $a_n = 22 + 2n$ 2) $a_1 = -10, d = -5$ First five terms: -10, -15, -20, -25, -30 Explicit: $a_n = -5 - 5n$ 3) $a_1 = -38, d = 20$ First five terms: -38, -18, 8, 28, 48 Explicit: $a_n = -58 + 20n$

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

4) $a_{38} = -53.2, d = -1.1$ First five terms: -12.5, -13.6, -14.7, -15.8, -16.9 Explicit: $a_n = -11.4 - 1.1n$ 5) $a_{37} = 249, d = 8$ First five terms: -39, -31, -23, -15, -7 Explicit: $a_n = -47 + 8n$ 6) $a_{30} = -38, d = 20$ First five terms: -618, -598, -578, -558, -538 Explicit: $a_n = -638 + 20n$

Given a term in an arithmetic sequence and the common difference find the recursive formula and the three terms in the sequence after the last one given.

```
7) a_{22} = -44, d = -2 Next 3 terms: -46, -48, -50

a_n = a_{n-1} - 2 \Rightarrow a_1 = -2

8) a_{12} = 30.6, d = 1.8 Next 3 terms: 32.4, 34.2, 36

a_n = a_{n-1} + 1.8 \Rightarrow a_1 = 10.8

9) a_{18} = 30, d = 2 Next 3 terms: 32, 34, 36 a_2 = a_{18} - 16d = a_n = a_{n-1} + 2 \Rightarrow a_1 = -4
```

So Much More Online! Please visit: testinar.com

