Name:

Date:

Comparing Arithmetic and Geometric Sequences

For each sequence, state if it arithmetic, geometric, or neither.

1) $40, 43, 46, 49, 52, \ldots$

2) $a_n = -4.(-3)^{n-1}$

3) $a_n = -43 + 4_n$

4) $1, 3, 6, 10, 15, \ldots$

5) $a_n = -163 + 200_n$

6) $a_n = (2\,n)^2$

7) $a_n = 16 + 3_n$

8) $4, 36, 64, 100, \ldots$

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

10) $a_n = 2.(-3)^{n-1}$

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Arithmetic

2) $a_n = -4.(-3)^{n-1}$

Geometric

3) $a_n = -43 + 4_n$

Arithmetic

4) $1, 3, 6, 10, 15, \ldots$

Neither

5) $a_n = -163 + 200_n$

Arithmetic

6) $a_n = (2\,n)^2$

Neither

7) $a_n = 16 + 3_n$

Arithmetic

8) $4, 36, 64, 100, \ldots$

Neither

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

Geometric

10) $a_n = 2.(-3)^{n-1}$

Geometric