

Arithmetic and Geometric Sequences Worksheet

Arithmetic Sequence - is a sequence of terms that have a common _____ between them.

General Term:

$t_n =$

Geometric Sequence - is a sequence of terms that have a common _____ between them.

General Term:

$t_n =$

1. Are the following sequences arithmetic, geometric, or neither? If they are arithmetic, state the value of d . If they are geometric, state r .

a) 6, 12, 18, 24, ...

b) 6, 11, 17, ...

c) 2, 14, 98, 686, ...

d) 160, 80, 40, 20, ...

e) -40, -25, -10, 5,

f) 7, -21, 63, -189, ...

2. For the following arithmetic sequences, find a and d and state the formula for the general term. Don't forget to simplify!

a) - 10, - 4, 2, 8, 14, ...

b) 10, 8, 6, 4, ...

c) 36, 31, 25, 21, ...

