Arithmetic Sequences and Series
Geometric Sequences and Series
… Set 2

Arithmetic and Geometric Cheat Sheet

	ARITHMETIC	GEOMETRIC
DEFINITION	add to get next term (common difference)	multiply to get next term (common ratio)
KEY WORDS	"arithmetic", "common difference"	"geometric", "common ratio"
SEQUENCE FORMULA (rule)	$u_n = u_1 + (n-1)d$	$u_n = u_1 \cdot r^{n-1}$
SERIES FORMULA (rule)	$S_n = \dfrac{n}{2}[2u_1 + (n-1)d]$	$S_n = \dfrac{u_1(1-r^n)}{1-r}$