① **Look at the following sequence.**

arithmetic

2, −1, −4, −7, −10, ...

−3 −3 −3 −3 −3

Which variable expression describes the relationship between the terms in the sequence? n−3

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② **Look at the table.**

Sequence 1	19, 22, 25, 28, ... +3	n+3
Sequence 2	19, 38, 76, 152, ... ×2	2n
Sequence 3	119, 110, 101, 92, ... −9	n−9
Sequence 4	119, 115, 111, 107, ... −4	n−4

Which sequence has a common ratio of 2? sequence 2

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③ **Look at the table.**

Sequence 1	13, 26, 52, 104, ... ×2	=2n
Sequence 2	13, 26, 39, 52, ... +13	n+13
Sequence 3	1000, 987, 974, 961, ... −13	n−13
Sequence 4	1000, 500, 250, 125, ... ×½	½n or $\frac{n}{2}$

Which sequence follows the variable expression 2*n*?

sequence 1

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④ **Look at the table.**

Sequence 1	2, 6, 18, 54, ... ×3	3n
Sequence 2	297, 198, 99, 0, ...	−99 n−99
Sequence 3	2, 6, 10, 14, ... +4	n+4
Sequence 4	297, 99, 33, 11, ... ÷3	or ⅓n or $\frac{n}{3}$

Which sequence follows the variable expression $\frac{x}{3}$?

sequence 4

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