

INKMATHS FLASHCARDS

# Key definitions

7 cards · fronts and backs

Print double-sided, flipping on the long edge, and each answer lands behind its question. Cut along the card borders.

Definitions in precise wording, the standard results the formulae booklet does not print, a check-yourself question per topic, and the slips that lose marks. The same cards run on the website with spaced-repetition scheduling, at [inkmaths.co.uk/flashcards](https://inkmaths.co.uk/flashcards).

**DEFINITION**

Define: Function.

KEY DEFINITIONS

**DEFINITION**

Define: Increasing function on an interval.

KEY DEFINITIONS

**DEFINITION**

Define: Arithmetic sequence.

KEY DEFINITIONS

**DEFINITION**

Define: Geometric sequence.

KEY DEFINITIONS

**DEFINITION**

Define: Radian.

KEY DEFINITIONS

**DEFINITION**

Define: Counterexample.

KEY DEFINITIONS

**CHECK YOURSELF**

A geometric series converges. State the condition on the common ratio, and the sum to infinity.

KEY DEFINITIONS

**DEFINITION**

A function whose derivative is greater than or equal to zero throughout the interval, so its value never falls as  $x$  increases.

KEY DEFINITIONS

**DEFINITION**

A rule that assigns to each element of its domain exactly one element of its range.

KEY DEFINITIONS

**DEFINITION**

A sequence in which the ratio between consecutive terms is constant, the common ratio  $r$ .

KEY DEFINITIONS

**DEFINITION**

A sequence in which the difference between consecutive terms is constant, the common difference  $d$ .

KEY DEFINITIONS

**DEFINITION**

A single specific case for which a general statement fails, which is enough to disprove the statement.

KEY DEFINITIONS

**DEFINITION**

The angle subtended at the centre of a circle by an arc equal in length to the radius.

KEY DEFINITIONS

**CHECK YOURSELF**

Convergence needs  $|r| < 1$ , and then the sum to infinity is  $a/(1 - r)$ .

KEY DEFINITIONS