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.

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