

INKMATHS FLASHCARDS

Further Maths core results

12 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.

STANDARD RESULT

De Moivre's theorem:

$$(\cos \theta + i \sin \theta)^n = ?$$

FURTHER MATHS: CORE RESULTS

STANDARD RESULT

Multiplying complex numbers:

$$|zw| = ?, \arg(zw) = ?$$

FURTHER MATHS: CORE RESULTS

STANDARD RESULT

2×2 determinant:

$$\text{rows } (a, b), (c, d): \det = ?$$

FURTHER MATHS: CORE RESULTS

STANDARD RESULT

Cubic root relations:

$$az^3 + bz^2 + cz + d = 0: \alpha + \beta + \gamma = ?$$

FURTHER MATHS: CORE RESULTS

STANDARD RESULT

Standard result:

$$\sum r^2 = ?$$

FURTHER MATHS: CORE RESULTS

STANDARD RESULT

Volume of revolution:

$$V = ? \text{ (about the x-axis)}$$

FURTHER MATHS: CORE RESULTS

STANDARD RESULT

Definition:

$$\cosh x = ?$$

FURTHER MATHS: CORE RESULTS

STANDARD RESULT

Hyperbolic identity:

$$\cosh^2 x - \sinh^2 x = ?$$

FURTHER MATHS: CORE RESULTS

STANDARD RESULT

$$|zw| = |z||w|, \arg(zw) = \arg z + \arg w$$

FURTHER MATHS: CORE RESULTS

STANDARD RESULT

$$(\cos \theta + i \sin \theta)^n = \cos n\theta + i \sin n\theta$$

FURTHER MATHS: CORE RESULTS

STANDARD RESULT

$$\alpha + \beta + \gamma = -(\mathbf{b})/(\mathbf{a})$$

FURTHER MATHS: CORE RESULTS

STANDARD RESULT

$$\det = ad - bc$$

FURTHER MATHS: CORE RESULTS

STANDARD RESULT

$$\mathbf{V} = \pi \int y^2 dx$$

FURTHER MATHS: CORE RESULTS

STANDARD RESULT

$$\Sigma r^2 = (n(n+1)(2n+1))/(6)$$

FURTHER MATHS: CORE RESULTS

STANDARD RESULT

$$\cosh^2 x - \sinh^2 x = 1$$

FURTHER MATHS: CORE RESULTS

STANDARD RESULT

$$\cosh x = (e^x + e^{-x})/(2)$$

FURTHER MATHS: CORE RESULTS

STANDARD RESULT

Logarithmic form:

$$\operatorname{arsinh} x = ?$$

FURTHER MATHS: CORE RESULTS

STANDARD RESULT

Polar area:

$$A = ?$$

FURTHER MATHS: CORE RESULTS

STANDARD RESULT

Integrating factor:

$$(dy)/(dx) + P(x)y = Q(x): IF = ?$$

FURTHER MATHS: CORE RESULTS

STANDARD RESULT

Second order equations:

$$ay'' + by' + cy = 0: \text{auxiliary equation?}$$

FURTHER MATHS: CORE RESULTS

STANDARD RESULT

$$A = \frac{1}{2} \int r^2 d\theta$$

FURTHER MATHS: CORE RESULTS

STANDARD RESULT

$$\operatorname{arsinh} x = \ln(x + \sqrt{x^2 + 1})$$

FURTHER MATHS: CORE RESULTS

STANDARD RESULT

$$am^2 + bm + c = 0$$

FURTHER MATHS: CORE RESULTS

STANDARD RESULT

$$IF = e^{\int P dx}$$

FURTHER MATHS: CORE RESULTS