

C3 FOR OCR – LIST OF WORKSHEETS

Exponentials and Logarithms

- A e^x and $\ln x$
- B Exponential growth and decay
- C Mixed exam-style questions on exponentials and logarithms

Functions

- A Domain, range and values of functions
- B Composite functions
- C Inverse of a function
- D The modulus function
- E Transformations of functions
- F Transformations of functions – further questions
- G Mixed exam-style questions on functions
- H Mixed exam-style questions on functions

Trigonometry

- A Inverse trigonometric functions
- B Secant, cosecant and cotangent
- C Pythagorean identities
- D Addition and double angle formulae
- E The expression $a \cos x + b \sin x$
- F Mixed exam-style questions on trigonometry
- G Mixed exam-style questions on trigonometry

Differentiation

- A Differentiating exponentials and logarithms
- B Differentiating exponentials and logarithms – further questions
- C The chain rule
- D The chain rule – further questions
- E The product rule
- F The quotient rule
- G The product rule and the quotient rule – further questions
- H Using $dy/dx = 1 \div dx/dy$
- I Connected rates of change
- J Mixed exam-style questions on differentiation
- K Mixed exam-style questions on differentiation

Integration

- A Integrating exponentials and the reciprocal of x
- B Integrating functions of $ax + b$
- C Integration – further questions
- D Volumes of revolution
- E Mixed exam-style questions on integration
- F Mixed exam-style questions on integration

Numerical Methods

- A Locating roots using changes of sign
- B Iterative methods of solving equations
- C Iterative methods of solving equations – further questions
- D Numerical integration – Simpson's rule
- E Mixed exam-style questions on numerical methods
- F Mixed exam-style questions on numerical methods

Proof

- A Proof
- B Mixed exam-style questions on proof