

## INTEGRATION (Q 8, PAPER 1)

### LESSON NO. 1: SIMPLE ALGEBRAIC INTEGRATION

**2006**

8 (a) Find (i)  $\int \sqrt{x} dx$

**2005**

8 (a) Find (i)  $\int (2 + x^3) dx$

**2004**

8 (a) Find (i)  $\int \frac{1}{x^2} dx$

**2003**

8 (a) Find (i)  $\int (x^3 + 2) dx$

**2002**

8 (a) Find  $\int (x^3 + \sqrt{x} + 2) dx$ .

**2001**

8 (a) Find (i)  $\int \frac{1}{x^3} dx$

### ANSWERS

**2006** 8 (a) (i)  $\frac{2}{3} x^{\frac{3}{2}} + c$

**2005** 8 (a) (i)  $2x + \frac{1}{4} x^4 + c$

**2004** 8 (a) (i)  $-\frac{1}{x} + c$

**2003** 8 (a) (i)  $\frac{1}{4} x^4 + 2x + c$

**2002** 8 (a)  $\frac{1}{4} x^4 + \frac{2}{3} x^{\frac{3}{2}} + 2x + c$

**2001** 8 (a) (i)  $-\frac{1}{2x^2} + c$