

**INTEGRATION (Q 8, PAPER 1)**

**LESSON NO. 6: SPECIALS**

**2001**

8 (b) Evaluate (i)  $\int_0^3 \frac{12}{x^2+9} dx$

**2002**

8 (b) Evaluate (ii)  $\int_2^7 \frac{1}{x^2-4x+29} dx.$

**2004**

8 (b) Evaluate (i)  $\int_3^6 \frac{dx}{\sqrt{36-x^2}}$

**2005**

8 (c) (i) Evaluate  $\int_1^2 \frac{1}{\sqrt{3+2x-x^2}} dx.$

**ANSWERS**

**2001** 8 (b) (i)  $\pi$

**2002** 8 (b) (ii)  $\frac{\pi}{20}$

**2004** 8 (b) (i)  $\frac{\pi}{3}$

**2005** 8 (c) (i)  $\frac{\pi}{6}$