

INTEGRATION (Q 8, PAPER 1)

LESSON No. 4: TRIGONOMETRIC INTEGRATION I

2004

8 (a) Find (ii) $\int \cos 6x dx$

2001

8 (a) Find (ii) $\int \sin 5x dx$.

2003

8 (c) (i) Show that $\int_a^{2a} \sin 2x dx = \sin 3a \sin a$.

2006

8 (b) Evaluate (ii) $\int_0^{\frac{\pi}{4}} \sin 5\theta \cos 3\theta d\theta$.

ANSWERS

2004 8 (a) (ii) $\frac{1}{6} \sin 6x + c$

2001 8 (a) (ii) $-\frac{1}{5} \cos 5x + c$

2006 8 (b) (ii) $\frac{1}{4}$