

INTEGRATION (Q 8, PAPER 1)

LESSON No. 5: TRIGONOMETRIC INTEGRATION II

2005

8 (b) Evaluate (ii) $\int_0^{\frac{\pi}{8}} \sin^2 2\theta \, d\theta$

2003

8 (b) (ii) By letting $u = \sin x$, evaluate $\int_0^{\frac{\pi}{2}} \cos x \sin^6 x \, dx$.

2004

8 (b) Evaluate (ii) $\int_0^{\frac{\pi}{3}} \sin x \cos^3 x \, dx$

ANSWERS

2005 8 (b) (ii) $\frac{\pi}{16} - \frac{1}{8}$

2003 8 (b) (ii) $\frac{1}{7}$

2004 8 (b) (ii) $\frac{15}{64}$