MAC2312: Calculus 2 - Section 3

Quiz 2: 7.2 Trigonometric Integrals   May 14, 2015

1. Evaluate $\displaystyle\int \sin^2(\pi x)\cos^5(\pi x)\ dx$.

    A. $\dfrac{1}{3\pi}\sin^3(\pi x) - \dfrac{1}{5\pi}\sin^5(\pi x) + C$

    B. $\dfrac{1}{5\pi}\sin^5(\pi x) - \dfrac{1}{3\pi}\sin^3(\pi x) + C$

    C. $\dfrac{1}{\pi}\sin(\pi x) - \dfrac{2}{3\pi}\sin^3(\pi x) + \dfrac{1}{5\pi}\sin^5(\pi x) + C$

    D. $\dfrac{1}{3\pi}\sin^3(\pi x) - \dfrac{2}{5\pi}\sin^5(\pi x) + \dfrac{1}{7\pi}\sin^7(\pi x) + C$