MAC2312: Calculus 2 - Section 3

Quiz 3: 7.3 Trigonometric Substitution — May 19, 2015

1. Evaluate $\int \frac{x^3}{\sqrt{x^2+4}}\,dx$.

   A. $\frac{1}{6}(x^2+4)^{3/2} - 2\sqrt{x^2+4} + C$

   B. $2\sqrt{x^2+4} - \frac{1}{6}(x^2+4)^{3/2} + C$

   C. $\frac{1}{3}(x^2+4)^{3/2} - 4\sqrt{x^2+4} + C$

   D. $4\sqrt{x^2+4} - \frac{1}{3}(x^2+4)^{3/2} + C$