Supplementary Homework Exercises for
Section 4.10: Inverse Trigonometric Functions (part 2)

Exercises

Complete the following exercises.

S1. $\displaystyle\int \frac{1}{\sqrt{25 - 4x^2}} \, dx$

S2. $\displaystyle\int \frac{x}{\sqrt{25 - 4x^2}} \, dx$

S3. $\displaystyle\int \frac{1}{x\sqrt{x^2 - 4}} \, dx$

S4. $\displaystyle\int_0^1 \frac{1 + x}{1 + x^2} \, dx$

S5. $\displaystyle\int \frac{1}{\sqrt{x}(1 + x)} \, dx$

S6. $\displaystyle\int \frac{\arctan x}{1 + x^2} \, dx$

S7. $\displaystyle\int \frac{e^{2x}}{\sqrt{1 - e^{4x}}} \, dx$