Supplementary Homework Exercises for
Section 4.11: Hyperbolic Functions (part 2)

Exercises

Integrate each of the following.

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

S2. $\displaystyle\int \frac{e^x}{1 - e^x}\, dx$

S3. $\displaystyle\int_4^6 \frac{1}{\sqrt{x^2 - 9}}\, dx$

S4. $\displaystyle\int \frac{1}{\sqrt{9 - x^2}}\, dx$

S5. $\displaystyle\int_0^1 \frac{1}{\sqrt{16x^2 + 1}}\, dx$

S6. $\displaystyle\int_0^1 \frac{x}{\sqrt{16x^2 + 1}}\, dx$

S7. $\displaystyle\int \frac{x}{\sqrt{16x^4 + 1}}\, dx$