

# Inverse and Hyperbolic Trig - Integration

July 6, 2020

1. Find  $\int \sinh(x)(\cosh(x))^2 dx$

2. Find  $\int \frac{\operatorname{csch}^2(\sqrt{x})}{\sqrt{x}} dx$

3. Find  $\int \frac{e^x}{\sqrt{1 - e^{2x}}} dx$

4. Find  $\int_0^1 \frac{\cosh(2x)}{3 + \sinh(2x)} dx$

5. Find  $\int \frac{1}{9 + 4x^2} dx$

6. Find  $\int \frac{1}{2x\sqrt{1 - 9x^2}} dx$

7. Find  $\int \frac{1}{\sqrt{x^2 + 2x + 5}} dx$