Calculus Formulae Sheet

1 Integrals

1.1 Hyperbolic Functions

$$\int sinh(ax)dx = \frac{1}{a}cosh\ ax + C \tag{1}$$

$$\int sinh^2(ax)dx = \frac{1}{4a}sinh\ 2ax - \frac{x}{2} + C \tag{2}$$

$$\int x\ sinh(ax)dx = \frac{1}{a}x\ cosh\ ax - \frac{1}{a^2}sinh\ ax + C \tag{3}$$

$$\tag{4}$$