

 $\int \frac{dv}{c^{2} \cdot v^{2}} = \frac{1}{a} \int \frac{dv}{c^{2} \cdot v^{2}} + C$   $\int \frac{dv}{\sqrt{c^{2} \cdot v^{2}}} = \sin^{-1}\left(\frac{v}{a}\right) + C$   $\int \frac{dv}{c^{2} \cdot v^{2}} = \frac{1}{a} \sec^{-1} \frac{|v|}{a} + C$