

Single Pure - Integrating Squares Of Trig Functions

1. $\int 4 \sin^2\left(\frac{x}{4}\right) dx.$

2. $\int a \cos^2\left(\frac{bx}{c}\right) dx.$

3. $\int (2x + \sin 4x)^2 dx.$

4. $\int_0^{\pi/3} 6 \tan^2\left(\frac{x}{2}\right) dx.$

$4\sqrt{3} - 2\pi$

5. $\int_0^{\pi} 8 \tan^2\left(\frac{\theta}{4}\right) d\theta.$

$32 - 8\pi$