Trig. Identities for Trigonometric Integrals & Trig. Substitution

- $\sin 2\theta = 2\sin\theta\cos\theta$
- $\sin^2\theta = \dfrac{1-\cos 2\theta}{2}$
- $\cos^2\theta = \dfrac{1+\cos 2\theta}{2}$
- $\sin^2\theta + \cos^2\theta = 1$