

Math 42 Exam 1 — Formulas for Reference

Trig Formulas:

$$\sin^2 t = \frac{1}{2} (1 - \cos 2t)$$

$$\cos^2 t = \frac{1}{2} (1 + \cos 2t)$$

Error-Bound Formulas for Approximate Integration:

$$|E_T| \leq \frac{K_2(b-a)^3}{12n^2}$$

$$|E_M| \leq \frac{K_2(b-a)^3}{24n^2}$$

$$|E_S| \leq \frac{K_4(b-a)^5}{180n^4}$$