

Section 7.3: Trig Integrals

Group work:

Problem 1 Evaluate the following integrals

(a) $\int \sin^3(4\theta) \cos^6(4\theta) d\theta$

(b) $\int \tan^{23} x \sec^6 x dx$

(c) $\int \tan^2 x \sec x dx$ *Hint:* $\int \sec x dx = \ln |\sec x + \tan x| + C$

(d) $\int \tan^2 x \sin x dx$

Problem 2 Evaluate

$$\int_{-\pi}^0 \sqrt{1 - \cos^2 x} dx.$$