HOMEWORK QUIZ 8 NAME: _____

Math 1910 26 October 2017

(1) Evaluate the integral: $\int \sin^2(\theta)\cos^2(\theta)\,d\theta$. You may use the reduction formula

$$\int \sin^n(x)\,dx = -\frac{1}{n}\sin^{n-1}(x)\cos(x) + \frac{n-1}{n}\int \sin^{n-2}(x)\,dx$$

(2) Evaluate the integral: $\int_1^2 x \ln(x)\, dx$.

§8.2 (TRIG INTEGRALS)

NAME:_____

11 July 2018

(1) Evaluate the integral.

(a) $\int \cos(x)\sin^5(x)\,dx$

(b) $\int \tan(x)\,dx$

(c) $\int \cos^2(4x)\,dx$

(d) $\int \tan^3(x)\sec(x)\,dx$

(e) $\int \sin^3(x)\cos^3(x)\,dx$

(f) $\int x\sec^2(x)\,dx$

(g) $\int \sin^4(x)\cos^2(x)\,dx$

(h) $\int \frac{\cos^5(x)}{\sin^3(x)}\,dx$

(i) $\int_0^{\pi} \sin(2x)\sin(x)\,dx$