Questions

- 1. Evaluate each of the following trigonometric integrals.
 - (a) $\int_0^{\pi} \sin^2(2\theta) d\theta$
 - (b) $\int \sin^3(x) dx$
 - (c) $\int_0 \tan^6(x) \sec^4(x) dx$
 - (d) $\int \sec^6(x) dx$
 - (e) $\int \frac{x^2}{\sqrt{x^2-9}} dx$
 - (f) $\int_1^2 \frac{x^5}{\sqrt{x^2+2}} dx$
 - (g) $\int \sqrt{1 4x^2}$
 - $(h) \int \frac{1}{9+x^2} dx$
 - (i) $\int \frac{1}{25+4x^2} dx$
 - (j) $\int_{-2}^{2} \frac{du}{\sqrt{25-u^2}} du$
 - (k) $\int \frac{ds}{s\sqrt{s^2-4}}$