(7.2) Trigonometric Integrals

Full Name: _____

1. Evaluate each of the following indefinite integrals.

   (a) $\displaystyle \int \cos^3 x \sin^{10} x \, dx$

   (b) $\displaystyle \int 90 \cos^{14}(3\theta) \sin^3(3\theta) \, d\theta$

   (c) $\displaystyle \int \sec^4 x \tan^{19} x \, dx$

   (d) $\displaystyle \int \sec^6 x \tan^{13} x \, dx$

   (e) $\displaystyle \int 27 \sec^4(3x) \tan^9(3x) \, dx$

(f) $\int 20\sec^{17} x \tan^3 x \, dx$

(g) $\int \sec^9(2x) \tan^5(2x) \, dx$

(h) $\int 16\cos^2 x \sin^2 x \, dx$

(i) $\int 12\cos^2(6x) \, dx$

(j) $\int 32\sin^4(8x) \, dx$