

MATH 1510 Tutorial Worksheet 12
Dec. 4 2007

Evaluate the following integrals.

(a) $\int_{-1}^0 x(x^2 - 1)^4 dx$

(b) $\int_0^4 2x\sqrt{4-x} dx$

(c) $\int_0^{\frac{\pi}{2}} \sin x \sqrt{\cos x} dx$

(d) $\int_0^{\frac{1}{2}} \frac{x}{\sqrt{1-x^2}} dx$

(e) $\int_{-1}^2 (x+1)(2-x)^4 dx$

(f) $\int_{\frac{\pi}{6}}^{\frac{\pi}{4}} \frac{\sec^2 x}{\tan x} dx$