

Worksheet 7.1

Full Name: _____ Score: _____

1. Use integration by parts to evaluate each of the following indefinite integrals.

(a) $\int x \cos x \, dx$

(b) $\int ye^y \, dy$

(c) $\int t^{15} \ln t \, dt$

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

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

(f) $\int \ln 12x \, dx$

(g) $\int \tan^{-1}(y) \, dy$

(h) $\int \arcsin(x) \, dx$

(i) $\int e^{5x} \sin 2x \, dx$