

(7.1) Integration by Parts

Full Name: _____

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

(a) $\int 16x \cos(4x) dx$

(b) $\int 15ye^{5y} dy$

(c) $\int 32x^2 \sin(2x) dx$

(d) $\int 64p^3 e^p dp$

$$(e) \int \ln(12x) dx$$

$$(f) \int 8w^{15} \ln(2w) dw$$

$$(g) \int 9 \tan^{-1}(3y) dy$$

$$(h) \int 25e^{5x} \sin x dx$$