

Section 7.2: Integration By Parts

Group work:

Problem 1 Evaluate the following integrals

(a) $\int_1^3 x^2 5^x dx$

(b) $\int \arcsin(x) dx$

(c) $\int x^{\frac{5}{3}} (\ln x)^2 dx$

Problem 2 Evaluate the following integral

$\int \sin(3x) e^{7x} dx$

Problem 3 Evaluate the following integrals

(a) $\int x^5 \cos(x^3) dx$

(b) $\int \cos(\sqrt{x}) dx$

(c) $\int x \cos x \sin x dx$
