

Chapter 7.2: Integration by Parts

Calculus II

Spring 2021

College of the Atlantic

Evaluate the following integrals:

$$\int t \cos(3t) dt \quad (1)$$

$$\int x^2 e^{2x} dt \quad (2)$$

$$\int \ln(x) dx \quad (3)$$

Hint for (3): try using $v' = 1$.

$$\int_2^4 t^3 \ln(t) dt \quad (4)$$

$$\int_{-1}^2 14x \cos 3x dx \quad (5)$$

$$\int e^{2x} \sin(x) dx \quad (6)$$