

Math 2B Worksheet: 7.1 Integration by Parts

Write your names and Student ID numbers at the top of the page

1. Evaluate the integrals by parts:

(a) $\int t^2 \sin(4t) \, dt$

(b) $\int ye^{9y} \, dy$

(c) $\int \tan^{-1}(2y) \, dy$

2. Make a substitution and then integrate by parts:

(a) $\int e^{\sqrt{x}} dx$

(b) $\int e^s \cos(1 + s) ds$

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