

## MATH 130A Review: Integration by parts

### Facts to Know

Integration by parts

$$\int_a^b u \, dv =$$

### Examples

1. Calculate  $\int_0^1 x e^{2x} \, dx$

2. Calculate  $\int_0^1 (x^2 + 1)e^{-x} dx$

3. Calculate  $\int_0^1 \tan^{-1} x dx$