

## Worksheet #1

Use integration by parts to perform the indicated integrations.

$$(1) \int t(2t + 7)^{1/3} dt$$

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

$$(3) \int_0^{\pi} x^2 \cos x dx$$

$$(4) \int e^{\alpha z} \cos(\beta z) dz$$