

Unit 1.1 Supplemented Practice Problems

Evaluate the following integrals. Try to avoid using u -sub if possible.

$$1) \int e^{5x} dx \quad 2) \int 4e^{t/2} dt \quad 3) \int \cos \pi\theta d\theta \quad 4) \int_0^{\pi/2} \sin\left(\frac{2t}{3}\right) dt$$

$$5) \int (3r - 5)^{11} dr \quad 6) \int \frac{e^{2x} + e^{-2x}}{2} dx$$