

Problem 1. Compute these integrals.

(a) $\int \frac{4 \, dx}{x^2 + 2x + 1}$

(b) $\int \frac{4 \, dx}{(x - 1)(x^2 + 2x + 1)}$

Problem 2. Compute these integrals.

(a) $\int \frac{5 \, dx}{x^2 + 2x + 2}$

(b) $\int \frac{5 \, dx}{(x - 1)(x^2 + 2x + 2)}$