1.
$$\int_0^{\pi/4} \tan(x) \, dx =$$

$$2. \int \frac{x^2 + 6x + 9}{x + 1} \, dx =$$

$$1. \int_0^{\pi/4} \sec(x) \, dx =$$

$$2. \int \frac{1}{x^2 + 6x + 10} \, dx =$$