

## Mixing Techniques (HW #3)

Compute using the appropriate technique.

$$\int_0^{\pi/3} x \sec(x) \tan(x) dx$$

$$\int \frac{dx}{x(x-1)^2}$$

$$\int_0^{\pi/2} \cos(5x) \cos(3x) + \sin^2(0.5x) dx$$

$$\int \frac{x}{(x^2 - 1)^{3/2}} dx$$

$$\int_0^4 \frac{dx}{\sqrt{16+x^2}}$$

$$\int \sqrt{\frac{e^x + e^{-x}}{2}} \cdot \frac{(e^x - e^{-x})}{2} dx$$