

W02 Stepwise

Due date: Thursday 1/22, 11:59pm

01 ★

🔗 Somewhat odd power product

Compute the integral:

$$\int \sin^2 x \cdot \cos^3 x \, dx$$

☑ Tangent and secant both even

Compute the integral:

$$\int \tan^2 x \cdot \sec^2 x \, dx$$

✍ All even power product

Compute the integral:

$$\int \sin^4 x \cdot \cos^2 x \, dx$$

✍ Trig sub

Compute the definite integral:

$$\int_0^{1/2} \frac{x^2}{\sqrt{1-x^2}} dx$$

🔗 Trig sub

Compute the integral:

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