

## Quiz 2

- (1) Approximate the integral:

$$\int_1^3 \frac{x^2}{x^2 + 1} dx$$

using a right-handed Riemann sum with 6 endpoints. Leave your answer as an unsimplified sum of 6 terms.

- (2) Use the fundamental theorem of calculus to evaluate:  $\frac{d}{dx} \left( \int_0^{\tan x} e^{-t^2} dt \right)$