Math 221 Assignment 1 Due Monday, February 6 at the beginning of class:

Use the Fundamental Theorem of Calculus to find

1. \[ \int_{0}^{\pi/3} \tan x \, dx \]

2. \[ \int_{0}^{6} |4 - x^2| \, dx \]

3. \[ \int_{0}^{1} \frac{x^2 + 5x}{\left( x^3 + \frac{15}{2} x^2 + 1 \right)^2} \, dx \]