

Math 1552, Integral Calculus
Section 5.4: The Fundamental Theorem of Calculus

- 1.** Evaluate the integrals:

a) $\int_1^2 \frac{3x-5}{x^3} dx.$

b) $\int_1^3 |x-2| dx.$

- 2.** Find $F'(2)$ for the function

$$F(x) = \int_{\frac{8}{x}}^{x^2} \left(\frac{t}{1-\sqrt{t}} \right) dt.$$