

Name: _____

Math 1441 Quiz 9

1. (10 points) Use **areas** to evaluate the integral.

(a) $\int_{-1}^1 7 \, dx$

(b) $\int_{-1}^1 |x| \, dx$

(c) $\int_{-1}^1 -\sqrt{1-x^2} \, dx$

2. (10 points) Use the **Fundamental Theorem of Calculus** to evaluate the integral.

(a) $\int_0^4 \sqrt{x} \, dx$

(b) $\int_1^2 \frac{1}{x^2} \, dx$

(c) $\int_0^1 x(x-1) \, dx$