

Math 2300-013: Quiz 1

Name: _____

Score: _____

1. (2 points) Integration by parts and u/du -substitution are two techniques for finding antiderivatives. To which rules for derivatives are they related?

(a) Integration by parts comes from the _____ rule for derivatives.

(b) u/du substitution comes from the _____ rule for derivatives.

2. (7 points) Evaluate the following integrals. Show all work.

(a) $\int \frac{\cos \theta}{1 + \sin^2 \theta} d\theta$

(b) $\int_1^4 \frac{\ln(x)\sqrt{\ln(x)+1}}{x} dx$

3. (1 point) I have turned in the last sheet from syllabus?

(a) Yes.

(b) No.