

Math 31B — Homework 03

Thursday Quiz Date: October 17, 2013  
Tuesday Quiz Date: October 22, 2013

**Part 1: Integration by parts**

1. 8.1: 1,19
2. 8.1: 53
3. 8.1: 57
4.  $\int \log_b(x) dx$
5. Derive the integration by parts formula.

**Part 2: Trig Substitution**

1. 8.2: 1
2.  $\int \cos(x)^{100} \sin(x) dx$
3. 8.3: 14, 19 ,33