The quiz is Thursday Sept 7 and covers u-sub.

**Quiz 1** 10am

**Q1 10AM** 5.5 **Page 413** 7, 11, 15, 17, 21, 33, 37, 41, 53, 57, 67, 69

7TH EDITION

**Q1 10AM** 5.5 **Page 418** 7, 11, 15, 17, 21, 37, 41, 53, 57, 67, 69

8TH EDITION

This Week

In class, we’ll be reviewing u-substitution, §5.5, and then on Friday start integration by parts, §7.1

Study Problems

Your most important problems are not the book problems, but the 14U problems online, which have solutions. Here’s additional practice, to work in TA session.

u-sub

\[
a) \int \frac{\sin x}{\cos^2 x} \, dx \quad b) \int_0^\pi \frac{\sin x}{\cos^2 x} \, dx
\]

\[
c) \int \frac{x}{x-1} \, dx \quad d) \int e^x \frac{1}{x \ln x} \, dx
\]

\[
e) \int \sinh x + \cosh x \, dx \quad f) \int_0^{\ln 2} \tanh x \, dx
\]

\[
g) \int_0^1 \frac{x}{\sqrt{1-x^2}} \, dx \quad h) \int \frac{x}{\sqrt{x+1}} \, dx
\]

**Parts Practice**

\[
a) \int \frac{\ln x}{x^2} \, dx \quad b) \int x \sec^2 x \, dx \quad c) \int x \tan^{-1} x \, dx
\]

\[
d) \int \frac{\sqrt{\ln x}}{x} \, dx \quad e) \int \frac{\ln x}{\sqrt{x}} \, dx
\]

In the middle ages, lords and vassals lived in a futil system.

Thats 'femin' system.

Just when I thought this junk was beginning to make sense.