

Homework 7

Due February 24

Be sure to write your name and section on your homework. Please staple all pages together.

Do the following problems from the textbook:

Section 7.2 6, 14, 16, 22, 29, 56

Hint: Some of these may require integration by parts or u-substitution.

Section 7.3 1, 8, 13, 14, 22

Hint: $\int \csc^2(x) dx = -\cot(x) + c$

Hint: For finding $\int \sec^3(x) dx$, see the end of section 7.2 in your textbook.

Also do the following problem:

Area of a Circle: Show that the area of a circle of radius r is πr^2 using trig substitution.

Extra Credit: 7.2.32 and 7.2.47