Assignment 11 (10/24)

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Problem 1

Chapter 5 review: (7, 10, 17, 18, 29, 44).

Problem 2

Note that by chain rule,

$$\frac{d}{dx}\left(\int_{a}^{u(x)} f(t)dt\right) = f(u(x))u'(x)$$

and

$$\frac{d}{dx}\left(\int_{v(x)}^{u(x)} f(t)dt\right) = f(u(x))u'(x) - f(v(x))v'(x)$$

Now do problems 5.8.(1-6,20,23,28,33,35,38).