M361 Assignment 7

Due in class Thursday, October 30.

1. Evaluate the following integrals.

   (a) $\int_C \frac{1}{z} dz$ where C is the line segment from i to $1 + 2i$.

   (b) $\oint_C \frac{z}{(z-i)(z+i)} dz$ where C is the circle of radius 5 centered at the origin.

Exercises from the textbook:

p. 160: #1(b)(c)(e)(f), #4(a)(b), #6, #7

p. 170: #1(a)(b)(c)(e), #2(a)(b), #4, #7.