

Calculus II - Math 152 Homework #9 - due Tuesday 3/9

- **Problems from the Book:** (Feel free to work on more problems in these sections for extra practice.)

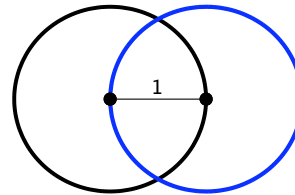
– §7.8: 1, 5, 11, 13, 15, 21, 23, 25, 27, 28, 31, 39, 41, 50-52, 57, 58, 63, 69, 79

– §8.1: 7, 11, 13, 17, 19, 25, 31, 33, 37

– §10.3: 1, 3, 5, 13-19 (Odd), 20-23

- **Additional Problems:**

1. Find the area of the **union** of two circles with radius 1 if the centers are 1 unit apart. (See figure to the right.)



2. If  $xe^{3x} = \int_1^{x^3} f(t) dt$ , where  $f$  is a continuous function, find  $f(8)$ .