CMSC 313	Homework 1
Spring '17	Due 2/7/2017 at start of class

For the following questions, *show all of your work*. It is not sufficient to provide the answers. Calculate only out to 2 decimal digits (if required).

**Exercise 1.** Convert the following numbers from base 7 to base 10:

a. 1235<sub>7</sub>

b. 21.347

**Exercise 2.** Convert the following numbers from base 10 to base 7:

a. 531<sub>10</sub>

b. 19.8<sub>10</sub>

**Exercise 3.** Convert the following numbers from base 10 to binary, octal and hexadecimal:

a. 232<sub>10</sub>

b.  $171_{10}$ 

**Exercise 4.** Convert the following numbers from hexadecimal to decimal and to binary.

a. 1B77<sub>16</sub>

b. ACDB  $_{\rm 16}$