Calculus II
Weekly Project

Name : _____

Historically, there are many different number systems. Nowadays, most of the world uses a base-10 number system. That means there are 10 digits (0-9). There are so many other ways to count, including base 20 (like the Aztecs), base 60 (Babylonian), Base 33 (Hong Kong Vehicle Registration Plates), Base 2 (Binary) and so on.

For this assignment, I want you to translate the following problems into a different number system, then solve them in that system! You can choose any non-base-10 number system you would like. Please handwrite this assignment.

1. 3+12
2. 1+74
3. 53-12
4. 5 x 4
5. 12 x 6
6. This last problem is found on a cuneiform tablet being preserved at Yale University. The tablet asks for the solution to the following system of equations:
   $x + y = 6; 30$ and $xy = 7; 30$
   There are two solutions, and the cuneiform tablet uses the Babylonian number system. Here $6; 30$ represents what you might think of as 6.5

This will be due by 11:59pm on Sunday, September 22nd.

This assignment will count as 3pts to the Test category.