

**MATH100**

HA 5, due **Wednesday**, October 14, 2009

**Explain your answers!**

1. Find binary representation for the number 32.

The binary representation is:

2. Find decimal representation for the number whose binary representation is 11111.

The decimal representation is:

3. Binary representation for the number  $x$  is 101, and binary representation for the number  $y$  is 10. Find decimal and binary representation for  $x + y$ .

The decimal representation is:

The binary representation is:

4. Binary representation for the number  $x$  is 111, and binary representation for the number  $y$  is 11. Find decimal and binary representation for  $x - y$ .

The decimal representation is:

The binary representation is: