

## MCS 150 HOMEWORK 8

1. Let  $n = 100 \dots 0_8$  where the one is followed by 1000 zeroes.
  - (a) If  $n$  is converted to base 7, what is its last digit?
  - (b) If  $n$  is converted to base 6, what is its last digit?
2. As you surely know,  $\pi = 3.14159265358979 \dots$ . Find the first 6 digits of  $\pi$  to base 16.