**Lecture 2 – Review of Number Systems**

* Integers are usually written using a *positional number system*

*N* = *anrn* + *an-1rn-1* +…+ *a2r2* + *a1r* + *a0*

where 0 ≤ *ai* < *a*

768 = 7 x 81 + 6 x 80 = 6210

3124 = 3 x 42 + 1 x 41 + 2 x 40 = 5410

11102 = 1 x 23 + 1 x 22 + 1 x 22 = 1410