Assignment (Formula Derivation)

 Given k, show that the mean square error for LSB-K is

MSE(LSB-k)=
$$(1/2^{2k})\sum_{i=0}^{2^k-1}\sum_{j=0}^{2^k-1}(i-j)^2 = \frac{2^{2^k-1}}{6}$$

- Type your proof in a word file using mathematical expression
- Submit: both word file and PDF file
- Deadline: 03/29 (Monday) 11:30
- The first correct works receive bonus credits