3. A computer programing team has 14 members: 8 of the members are women and 6 of the members are men. How many ways can a group of 7 be chosen to work on a project if at most 3 women are in the group?

 $+ \begin{pmatrix} b \\ 5 \end{pmatrix} \begin{pmatrix} \mathbf{g} \\ 2 \end{pmatrix} + \begin{pmatrix} b \\ 4 \end{pmatrix} \begin{pmatrix} \mathbf{g} \\ 3 \end{pmatrix}$ Numan SMey 240MB A 6 men

4. Find the sum  $2+2^2+2^3+2^4+2^5+\cdots+2^{26}$ . (Your answer should not contain any dots or any summation signs.)

Sum = 
$$2(1+2+2^2+\cdots+2^{2s}) = (2\frac{1-2^{26}}{1-2})$$