

1. READING:

Read the handout on Free groups. (Available on course homepage.)

2. HOMEWORK:

(1) Use the Universal Property for free groups to prove:

Theorem. *Suppose that $F(S)$ and $F(X)$ are free groups on generating sets S and X , respectively. Then $F(S)$ and $F(X)$ are isomorphic if and only if S and X have the same cardinality.*