Do all of 11-21 of Exercises 2.1 in Hatcher (p. 132).
Hand in the following problems: 11, 12, 13, 16, 17, 20, 21

In addition, do the following problems:
1. Calculate $H_\ast(\vee_k S^n)$ for $k, n \geq 1$. You may take $H_\ast(S^n)$ as known.
2. Give an example of two topological spaces which have the same homology groups but are not homotopy equivalent.