1. The Partition Problem (PP) is described in Section 13 of the notes. Give a polynomial-time reduction from PP to the Subset Sum Problem.
2. Exercise set 0911 defines isomorphic graphs. Suppose that $G$ and $H$ are simple graphs. Say that $H$ is isomorphic to a subgraph of $G$ provided it is possible to remove zero or more vertices and zero or more edges from $G$ and get a graph that is isomorphic to $H$. (When you remove a vertex $v$, you must also remove all edges that are incident on $v$.) The Subgraph Isomorphism Problem (SIP) is the following decision problem.

**Input.** Simple graphs $G$ and $H$.

**Question.** Is $H$ isomorphic to a subgraph of $G$?

Prove that SIP is NP-complete. (**Hint.** Reduce from the Clique Problem.)