CSE 321: Discrete Structures
Assignment \#9
Due Wednesday, December 10

Reading: Rosen, Chapter 8 (In 4th edition, chapter 7).

1. p. 555, problem 24 (4th edition, p. 455, problem 18)
2. Describe an algorithm to decide whether a graph is bipartite.
3. Show that in any simple raph there is a path from any vertex of odd degree to some other vertex of odd degree.
4. For which values of $m$ and $n$ does the complete bipartite graph $K_{m, n}$ have an

- Euler circuit
- Euler path.

5. Suppose that a connected bipartite planar simple graph has $e$ edges and $v$ vertices. Show that $e \leq 2 v-4$ if $v \geq 3$.
