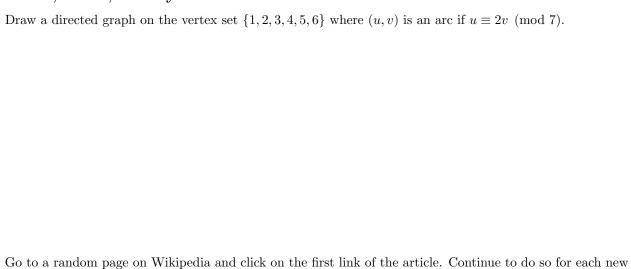Chapter 10.3-4
Wednesday, Week 7

Recap

Draw:

1. K_4

2. C_4

3. $\overline{C_4}$

4. A graph with 6 vertices where every vertex has degree 1.

5. $K_{3,3}$

6. How many (labeled) graphs on 3 vertices are there?

Graph Isomorphisms

There are three distinct (up to isomorphism) graphs with 4 vertices and 3 edges. Find all of them.

Walks, Paths, and Cycles

Draw a directed graph on the vertex set $\{1, 2, 3, 4, 5, 6\}$ where (u, v) is an arc if $u \equiv 2v \pmod{7}$.

Go to a random page on Wikipedia and click on the first link of the article. Continue to do so for each new page you come to. If every article has at least 1 link and no links are broken, what will eventually happen?