MAD 2104H
HW #3
Due December 6th.

1. Problem (29) from Chapter 9 of the book.
2. Problem (30) from Chapter 9 of the book.
3. Problem (33) from Chapter 9 of the book. If necessary work out for the small ones (smaller than $n = 10$).
4. This problem deals with the zero-divisor graph of $\mathbb{Z}_n$ where n is not prime. Draw the following graphs. Then determine whether the graphs are bipartite. $\Gamma(\mathbb{Z}_6)$, $\Gamma(\mathbb{Z}_8)$, and $\Gamma(\mathbb{Z}_{10})$.
5. Find all (simple and connected) chordal graphs with 5 vertices, or convince me that there are too many to draw all of them.