Math 61: Homework 6

Due: 2/22/19

Problem 1: Are the following graphs bipartite (prove your answer)?

(a) ![Graph A](image)

(b) ![Graph B](image)

(c) ![Graph C](image)

Problem 2: Draw the 1-skeleton of an octahedron (the unique solid with 8 equilateral triangles as faces).

Problem 3: Do the following graphs have Euler cycles (prove your answer)?

(a) ![Graph D](image)

(b) ![Graph E](image)
Problem 3: From Johnsonbaugh:

Chapter 8.1: 18, 25, 47, 48, 53
Chapter 8.2: 12, 34, 35, 36, 55