

Solutions to Chapter 6 Exercises

6.1 no

6.2 the rightmost 2

6.3 yes. no.

6.5.1 K_n is Eulerian when n is odd

6.5.2 K_{nm} is Eulerian if n and m are both even.

6.5.3 only the octahedron

6.8 e.g. 2,2,0,0,3,3,1,1,4,4,3,2,1,0,4

6.9 see http://en.wikipedia.org/wiki/Icosian_game for an example of a solution

6.12.1 all of them with $n \geq 3$

6.12.2 K_{mn} is Hamiltonian iff $m = n$.

6.18, 6.19 These are provided as examples of the TSP, you're not expected to solve them!

6.23 For the 6.18 graph, starting at a lower bound =618, upper bound=923. For the 6.19 graph, starting at H lower bound=750, upper bound=950.