Homework 4

Knot Theory - Atkinson

Due on Friday, Febrary 16.

Remember to follow the guidelines given in the first assignment.

- (1) Exercise 2.10 on page 44 (read carefully: the second tangle has a line break after the first "3").
- (2) Exercise 2.13 on page 46.
- (3) Exercise 2.14 on page 46.
- (4) Exercise 2.31 on page 55. Make a complete list of all possible situations.
- (5) Convert the knot diagram K shown below to a Tait graph G(K). Using the moves you found in the previous exercise, find a sequence of graph moves transforming G(K) to a single vertex. This exhibits a sequence of Reidemeister moves from K to the standard diagram of the unknot.

