Exercise 5.1:
Consider the following *crossword puzzle*, where a given list of words can be used to fill the empty spaces.

```
1   2   3
#   #   #
#   4   5
6   #   7
8   #   #
```

AFT  LASER
ALE  LEE
EEL  LINE
HEEL SAILS
HIKE SHEET
HOSES STEER
KEEL TIE
KNOT

a) Formalize the problem as a CSP and draw the *constraint graph*.

b) Reduce the domains of the variables by applying the constraint propagation method *arc consistency*.

c) Is constraint propagation enough to solve the CSP? If not, use a search algorithm with forward checking and the degree heuristic.