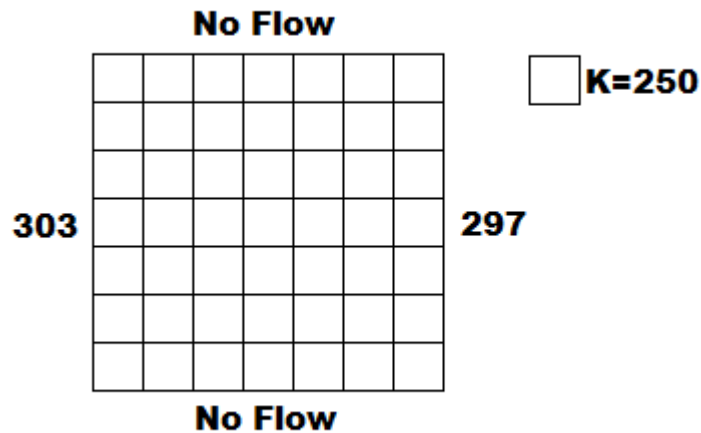


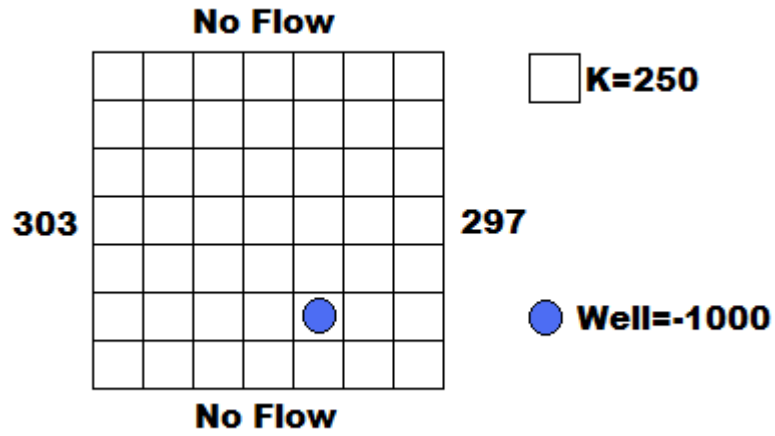
The purpose of Work Session 2 is to gain basic MATLAB coding experience by writing short groundwater flow routines.

Using a MATLAB m-file, write code that determines the hydraulic head for each cell of the given domain, you will be able to use the same code (with different input files) for all four cases. Using problem 1 as an example, name your m-file `FlowWork1.m` and your function `FlowWork1()`. In all cases your function should take as parameters the number of rows, the number of columns, all four boundary conditions, and two matrices—one will hold information about hydraulic conductivity (in both the  $x$  and  $y$  directions) at each cell while the other will hold information about wells and their associated pumping rate for each cell in the domain.

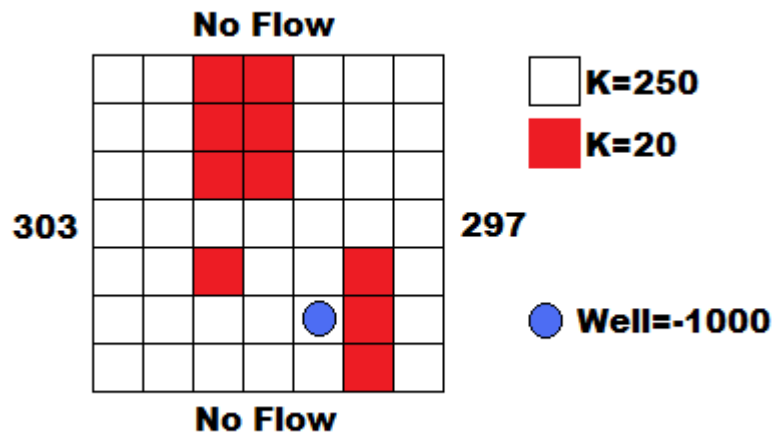
1.



2.



3.



4. Suppose instead that the well in question #3 pumps 2000 m/d? 5000 m/d?