

## Chapter # 8

### Problem # 8-2

Try to analyze why equation (8-9) is not suitable as an independent pressure equation (see Exercise 6-1) in the original variable method. But which can be used to calculate the pressure in the vorticity - stream function method?

### Problem # 8-3

Try to drive the expression (8-23) for vorticity at boundary (wall).

### Problem # 8-4

The vorticity boundary conditions in this chapter, are derived by using discrete method A. Try to use discrete methods B to derive the corresponding boundary vorticity formulate for equations (8-21), (8-22).

### Problem # 8-5

Consider the three kinds of two-dimensional coordinate system as shown below; write down the expressions for effective pressure of closed cavity natural convection.

