

**2.20 Problem Set 6**

**Name:** \_\_\_\_\_

1. Supplementary Problem Pa2.

2. The stream function for a particular flow is given as  $\psi(x, y) = x^2 - y^2$ .

- (a) Show that this flow is irrotational.
- (b) Calculate the velocity potential.
- (c) Sketch the streamlines of the flow.

3. Supplementary Problem P15.