

**Assignment #13, due Monday, December 9, 2002:**

**Reading:**

Volume II, Sections 8.16–8.21

**Problems:**

Volume II:

8.17: 4, 8, 9

8.22: 2\*, 14ac\*\*, 15ac\*\*

\*Hint:  $F(x, y) = f\left(\frac{x-y}{2}, \frac{x+y}{2}\right)$ ,  $\partial f/\partial u = D_1f$ ,  $\partial f/\partial v = D_2f$ .

\*\*Use the chain rule for  $h = f \circ g$  to do part (c).

8.24: 4, 6

Salas, Hille, Etgen, 15.3: 54, 56, 57

**The final exam will be on Wednesday, December 18, 2:00-5:00 pm,  
in Krieger 304.**