

**Sec. 23:** problems 4, 6, 7, 8, 9 (pages 71–72).

**Sec. 25:** problems 1(b,c), 2(a), 4(a,b) (page 77).

*Remark:* Note that the functions in Problem 1 of Sec. 25 can be written as (a)  $f(z) = (3-i)z$ , (b)  $f(z) = \frac{1}{2i}(e^{iz} - e^{-iz})$ , (c)  $f(z) = -i e^{iz}$ , (d)  $f(z) = (z^2 - 2) e^{-z}$ , i.e., they can be expressed as functions of  $z$  only, without  $\bar{z}$ . This is related to the fact that the Cauchy-Riemann equations can be written formally as  $\frac{\partial f}{\partial \bar{z}} = 0$  – see Problem 10(b) of Section 23 (page 73).