

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).