

Sec. 18: problem 10(a,b) (page 56).

Sec. 20: problems 1, 2, 3, 6(b), 7, 8(b) (pages 62–63).

Sec. 23: problems 1(a,c), 2(a,b), 3(a,b) (pages 71–72).

Additional problem. Directly from the definition of a limit (generalized to include ∞), show that

$$(a) \lim_{z \rightarrow 2i} \frac{1}{(z - 2i)^3} = \infty ;$$

$$(b) \lim_{z \rightarrow \infty} \frac{5}{z^2} = 0 .$$

Food for thought:¹ Sec. 20, problem 6.

¹ “Food for thought” problems are problems you should think about, but not turn in with the regular homework problems.