From the text:

1.4 (p. 59-60): 1, 2, 3 (just do the sets from Exercise 1), 4, 11, 13.

2.2 (p. 111-114): 1, 11, 12

Not from the text:

A. Do the three problems on the lab sheet.

B. Use Euler’s formula to prove the trig identity

\[ \cos(3\theta) = 4\cos^3(\theta) - 3\cos(\theta) \]

C. Find \( \text{Log}(1 - i) \). Find the image of the sector

\[ \{0 < |z| < 1, \ -\pi/2 < \text{Arg}(z) < 0\} \]

under the mapping \( w = \text{Log}(z) \).