Exercises for Chapter III: Elementary Functions.

Ex. 1: Verify Prop. III.1.

Section 5.1: 4,5,7,9,11,12.

Ex. 2: Verify Prop. III.2.

Section 5.4: 2,4,7,8,14,15,16.

Ex. 3: Verify Thm. III.3.

Ex. 4: Verify Thm. III.4.

Ex. 5: Show that $z^{1/n} = \exp(1/n \log(z))$ for $n = -1, -2, \ldots$.

Section 5.2: 1,2,3,4,5,9,12.

Section 5.3: 1,2,4,6.