

ASSIGNMENT 1

- (1) Express in the form $a + ib$:
 $(1 + 2i)^3$, $\frac{5}{-3+4i}$, $(\frac{2+i}{3-2i})^2$, and $(1 + i)^n + (1 - i)^n$
- (2) Exercise 1 page 24 of the textbook
- (3) What is $Re((2e^{\frac{i47\pi}{3}})^6)$?
- (4) Exercise 9 page 27 of the textbook
- (5) Exercise 11 page 27 of the textbook
- (6) Exercise 16 (a) and (f) page 28 of the textbook