You are strongly encouraged to work in groups, following the procedure as in homework MS09.

Exercise pCA 1. Express the given complex number in the form a + ib with $a, b \in \mathbb{R}$.

ER 1.a. $(1+i)^{20}$. Hint. Express (1+i) as $re^{i\theta}$. **ER 1.b.** $\frac{1-2i}{2+i}$. Hint. Multiply the numerator and denumerator by the *complex conjugate of* 2+i, which is 2-i.