**Exercise 1.** Find all the roots $\sqrt[3]{z}$, where $z = \mathrm{Im}\left((4-i)^2\right)$

**Exercise 2.** Solve the equation: $z^4 = (2i-2)^{12}$.

**Exercise 3.** The number $z_1 = 2i$, is a root of the polynomial:

$$W(z) = z^4 + 2z^3 + 9z^2 + 8z + 20.$$

Find all the other roots.

**Exercise 4.** Find all the roots of the polynomial: $W(z) = z^3 - 2z^2 + 6z + 9$.