- 1) Write $z = 11 \text{cis}(85^\circ)$ in the algebraic form
- 2) Write $z=\frac{-50i}{4-3i}$ in the algebraic form and trigonometric form
- 3) Solve $(\bar{z})^2 = -9i$. Give the answers in the trigonometric form.
- 4) Check that $z_1=1-5i$ is a solution of $2z^2-4z+52=0$ and determine the other solution.
- 5) Give the geometric interpretation of the transformations f(z)=7z and of $g(z)=\bar{z}+2i$