Send the task to: kmwr@o2.pl. The safest format is .pdf
Total time for the test: 13 minutes

1. Solve, exactly, for $z \in \mathbf{C}$,
(a) $3 z^{2}-2 z+5=0$,
(b) $3 \operatorname{Im}(2 i-z)=5-i+i \operatorname{Re}((1+i) z)$.
2. Let $w=\frac{1-2 i}{\bar{z}+i}$. Draw all $z \in \mathbf{C}$ for which $w$ is purely imaginary.
