Quiz

1. Find real numbers a and b satisfying the property that $(a + bi)^2 = i$.

2. Sketch a picture representing the set of values of the complex variable z for which $|z-i| \leq 1$.

3. If z is an element of the complex numbers satisfying the property that $|\operatorname{Re}(z)| = |z|$, then what can you deduce about z?