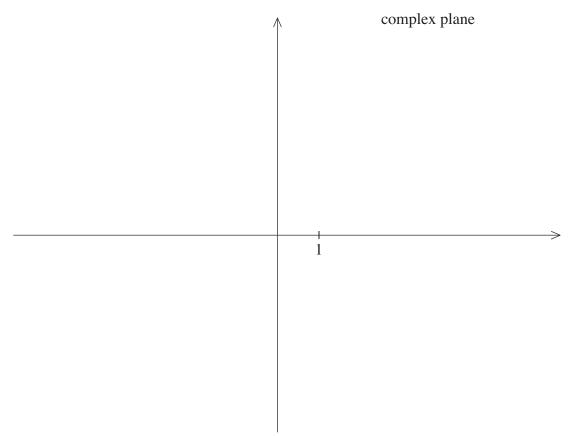
Name

Quiz

1. Compute the complex numbers (2+3i) + (-1+i) and (2+3i)(-1+i) and locate them accurately in the complex plane below.



2. Show that 1 + 2i is a root of the polynomial $x^2 - 2x + 5$.

3. Use the formula $c = \cos \theta + i \sin \theta$ to find a number c in the complex plane that satisfies $c^6 = -1$. Place your number into the coordinate plane above and explain why it satisfies the required property.