161 Quiz 17 **Name**_____

1. The conjugate of $2+3i$ is _____, the conjugate of $-i$ is _____ and the conjugate of 12 is _____.

2. For the complex number $\frac{1}{2}-\frac{\sqrt{3}}{2}i$ the real part is _____ and the imaginary part is _____.

3. Multiply: $(2-3i)(1+i)$

4. If $2-3i$ is the root of a quadratic equation with real coefficients then so is _____.

5. Solve the quadratic equation $x^2-2x+5=0$. Write your answers in the form $a+bi$