Definition of a complex number:

-8 + 2i, \( \frac{3}{2} \), \(-1.75i\)

A complex number is of the form \(a + bi\) where \(a, b\) are real numbers and \(i = \sqrt{-1}\)

* If \(b = 0\) then it is a real number
* If \(b \neq 0\) we call it an imaginary number
* \(a + bi\) is the standard form (\(a\) is the real part while \(b\) is the imaginary part)
* \(a + bi\) and \(-b - ai\) are imaginary conjugates of complex numbers