

Answer on Question #45944 - Math - Complex Analysis

Question:

Find the real numbers x and y that make the equation true.

$$5 + yi = x + 3i$$

Solution:

Two complex numbers are equal if and only if their real parts are equal and their imaginary parts are equal. Therefore:

$$5 = x$$

$$y = 3$$

Answer: $x = 5, y = 3$.