

Answer on Question #58280 – Math – Complex Analysis

Question

Find the difference between $(7-3i)$ and $(5-7i)$.

Solution

$$(a_1 + b_1i) - (a_2 + b_2i) = (a_1 - a_2) + (b_1 - b_2)i.$$

Thus,

$$(7 - 3i) - (5 - 7i) = (7 - 5) + (-3 - (-7))i = 2 + (-3 + 7)i = 2 + 4i.$$

Answer: $2 + 4i$.