

Answer on Question #58281 – Math – Complex Analysis

Question

Let $z_1 = a_1 + ib_1$ and $z_2 = a_2 - ib_2$ then $z_1 - z_2 = ?$

Solution

$$\begin{aligned} z_1 - z_2 &= (a_1 + ib_1) - (a_2 - ib_2) = a_1 + ib_1 - a_2 + ib_2 = a_1 - a_2 + ib_1 + ib_2 = \\ &= (a_1 - a_2) + i(b_1 + b_2). \end{aligned}$$

Answer: $(a_1 - a_2) + i(b_1 + b_2)$.