

## Answer on Question #51657 - Math - Complex Analysis

$$z_1 = 3 + 5j$$

$$z_2 = 6 - 3j$$

$$z_3 = -5 + 4j$$

plot the following on an Argand diagram

$$z_1 + z_2$$

$$z_2 - z_3$$

$$z_3 - z_1$$

$$z_1 + z_3$$

### Solution

$$z_1 + z_2 = 3 + 5j + 6 - 3j = 9 + 2j$$

$$z_2 - z_3 = 6 - 3j - (-5 + 4j) = 11 - 7j$$

$$z_3 - z_1 = -5 + 4j - (3 + 5j) = -8 - j$$

$$z_1 + z_3 = 3 + 5j - 5 + 4j = -2 + 9j$$

