

4.1

$$1) \quad z_1 + z_2 = (1 + 4i) + (2 - 5i) = (1 + 2) + (4 - 5)i = 3 - i$$

$$2) \quad z_1 + z_2 = (1 + 6i) + (2 + 5i) = (1 + 2) + (6 + 5)i = 3 + 11i$$

$$3) \quad z_1 + z_2 = (2 + 4i) + (2 - 4i) = (2 + 2) + (4 - 4)i = 4$$

$$4) \quad z_1 + z_2 = (8 + 7i) + (-8 - 7i) = (8 - 8) + (7 - 7)i = 0$$