

4. (a) Given $z_1 = 3 + i$ and $z_2 = -1 + 3i$, plot the numbers z_1, z_2 and $z_1 + z_2$ on an Argand diagram. Join the points $0, z_1, z_2$, and $z_1 + z_2$.
- (b) Given $z_3 = 2 - 2i$ and $z_4 = -1 - 4i$, plot the numbers z_3, z_4 and $z_3 + z_4$ on an Argand diagram. Join the points $0, z_3, z_4$, and $z_3 + z_4$.
- (c) What geometrical observation could you make about the relationship between $0, z_1, z_2$, and $z_1 + z_2$? *They form a square*

