Section 2: The Argand diagram

Exercise level 2

1. Given that $z = 2 + i$ show on an Argand diagram z, z^*, iz, and iz^*. Describe the transformation that describes the relationship between
   (i) z and z^*
   (ii) z and iz.

2. Given that $z = 4 + 3i$ and $w = 1 - 2i$, represent the following complex numbers on an Argand diagram.
   (i) z
   (ii) w
   (iii) $z + w$
   (iv) w^*

3. Given that $z_1 = 3 + 2i$ and $z_2 = 4 - i$, represent z_1, z_2, $z_1 + z_2$ and $z_1 - z_2$ on an Argand diagram.

