

1D Complex Conjugates

1. Write down the complex conjugate of:

a) $2 + 3i$

b) $5 - 2i$

c) $1 - i\sqrt{5}$

2. Find $z + z^*$, and zz^* , given that:

a) $z = 2 - 7i$

b) $z = 2\sqrt{2} + i\sqrt{2}$

3. Write the following in the form $a + bi$

a) $\frac{(10+5i)}{(1+2i)}$

b) $\frac{(5+4i)}{(2-3i)}$