1 Komplexe Zahlen $\mathbb C$

1.1 Arithmetik

$$z_1 + z_2 = (a+bi) + (c+di) = (a+c) + (b+d)i$$

$$z_1 - z_2 = (a+bi) - (c+di) = (a-c) + (b-d)i$$

$$z_1 \cdot z_2 = (a+bi) \cdot (c+di) = (ac-bd) + (ad+bc)i$$

$$\frac{z_1}{z_2} = \frac{a+bi}{c+di} = \frac{ac+bd}{c^2+d^2} + \frac{bc-ad}{c^2+d^2}i$$

2 Aufgaben zu Komplexen Zahlen