

Exercise 1

Reduce each of these quantities to a real number:

$$(a) \frac{1+2i}{3-4i} + \frac{2-i}{5i}; \quad (b) \frac{5i}{(1-i)(2-i)(3-i)}; \quad (c) (1-i)^4.$$

$$\text{Ans. (a) } -2/5 \quad (b) \ -1/2; \quad (c) \ -4.$$