Exercise 1

Reduce each of these quantities to a real number:

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

Ans. (a) \(-2/5\)  (b) \(-1/2\)  (c) \(-4\).