1C Multiplying Complex Numbers

1. Simplify
a) $(2 + 3i)(4 + 5i)$

b) $(7 - 4i)^2$

c) $(2 - 3i)(4 - 5i)(1 + 3i)$

2. Simplify

a) i^3

b) i^4

c) $(2i)^5$