ANSWERS

A)_____

B)_____

C)_____

A) If $x = a + bi$ for real a and b and if $x^2 = i$ find the product ab.

B) Simplify $\left(i^9 - 5i^6 - 3i^8 + 7i^{11}\right)^2$ as much as possible.

C) Express in simplest form $\quad (\sqrt{-6} - \sqrt{-2})^2 + \dfrac{16i}{1 + \sqrt{-3}} - \left(\dfrac{4}{\sqrt{-2}}\right)^2$