Questions

1. Write the expression $(\sqrt{2} + i\sqrt{3})(\sqrt{2} - i\sqrt{3})$ in the form $a + bi$.

2. Write the quotient $\dfrac{4 + 2i}{5 - 3i}$ in the form $a + bi$.

3. Write the expression $\dfrac{1}{x + yi}$ in the form $a + bi$.