

Imaginary and Complex Numbers Practice

Simplify:

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

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

3) $(-8 - 7i) - (5 - 4i)$

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

5) $(3 - 4i)^2$

6) $(3 - 2i)(5 + 4i) - (3 - 4i)^2$

7) Write $\frac{3 + 7i}{5 - 3i}$ in standard form

8) Simplify i^{925}

9) Simplify i^{460}

10) Write $\frac{1 - 4i}{5 + 2i}$ in standard form

11) $\sqrt{-16}$

12) $\sqrt{-8}$

13) $\sqrt{-6} \sqrt{-6}$

14) $4 + \sqrt{-25}$

15) $\frac{6 - \sqrt{-8}}{-2}$
