

Practice with Complex Numbers

1. Express in simplest $a + bi$ form: $(3 + 5i)(9 - 5i)$

2. Express in simplest $a + bi$ form: $\frac{6 + i}{6 - i}$

3. Express in simplest $a + bi$ form: $\frac{5 - 7i}{i}$

4. Express the multiplicative inverse of $4 - 9i$ in simplest $a + bi$

5. Solve for x in simplest $a + bi$ form: $x^2 - 10x + 34 = 0$

6. Solve for x in simplest $a + bi$ form: $3x^2 + 10 = 4x$

7. Graphically add $-2 + 4i$ and $4 + i$.



8. Graphically add $3i$ and $5 + i$.



9. Graphically subtract $-1 + i$ from $3 + 2i$.



*10. Graphically add $2 + i$ and $4 + 2i$.

