Lesson 3.3 Practice: Complex Numbers

School Launch · Algebra II · Unit 3: Quadratic Functions and Complex Numbers · Worksheet A

Calculator for decimals

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Simplify; write in $a + bi$ form: $(-7 - 5i) + (5 + 4i)$. EASY

2. Simplify; write in $a + bi$ form: $(-3 - 7i) + (-6 + 7i)$. EASY

3. Simplify; write in $a + bi$ form: $(3 - 7i) + (-4 + 7i)$. EASY

4. Simplify; write in $a + bi$ form: $(3 + 4i)(7 + 5i)$. MEDIUM

5. Simplify; write in $a + bi$ form: $(-6 - 7i)(3 - 6i)$. MEDIUM

6. Simplify; write in $a + bi$ form: $(4 + 5i)(-6 + 4i)$. MEDIUM

7. Simplify; write in $a + bi$ form: $(5 - 4i)(1 - i)$. MEDIUM

8. Simplify; write in $a + bi$ form: $\frac{-5+5i}{3+7i}$. HARD

9. Simplify; write in $a + bi$ form: $\frac{-1-3i}{1-6i}$. HARD

10. Simplify; write in $a + bi$ form: $\frac{-4+4i}{2+3i}$. HARD