



Name _____ Class _____ Date _____

AFTER THIS WORKSHEET YOU CAN

- ✓ Simplify square roots of negative numbers. ✓ Add and subtract complex numbers. ✓ Understand $i^2 = -1$.
- ✓ Identify real and imaginary parts.



Section A • Concept Check

• BEGINNER

$4 \times 1 = 4$

1 Simplify $\sqrt{-49}$:

- ☐ A. $7i$ ☐ B. -7 ☐ C. $49i$ ☐ D. 7

2 Simplify $\sqrt{-4}$:

- ☐ A. $2i$ ☐ B. -2 ☐ C. $4i$ ☐ D. 2

3 $(5+2i) + (3+6i) = ?$

- ☐ A. $8+8i$ ☐ B. $8+4i$ ☐ C. $15+12i$ ☐ D. $8+8$

4 $(7-3i) - (2+i) = ?$

- ☐ A. $5-4i$ ☐ B. $5-2i$ ☐ C. $9-4i$ ☐ D. $5+4i$



Section B • Problem Solving

• INTERMEDIATE

$2 + 3 \times 3 = 11$

5 The imaginary unit satisfies $i^2 =$ _____.6 $\sqrt{-49} =$ _____.7 Simplify $\sqrt{-49}$.8 Simplify $\sqrt{-4}$.9 Add $(5+2i) + (3+6i)$.

Section C • Challenge

• CHALLENGE

5

10 Subtract $(7-3i) - (2+i)$.

Reflection — the most useful thing I learned: _____

A ___/4 B ___/11 C ___/5 Total ___/20

Teacher's Signature

Parent's Signature

ANSWER KEY — FOLD OR CUT BEFORE HANDING OUT

1-A 2-A 3-A 4-A | 5 -1 6 $7i$ 7 = $7i$ 8 = $2i$ 9 = $8+8i$ | 10 = $5-4i$