

Student: _____
Date: _____
Time: _____

Instructor: Rick Butterworth
Course: Inter Algebra Fall 2008
Book: Carson: Elementary Algebra, 2e

Assignment: Inter Test Four Practice

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1. Solve. Use the square root principle to eliminate the square.
 $(5k + 2)^2 = 64$
- The solution is $k = \square$.
(Simplify your answer. Use a comma to separate answers as needed. Type N if the solution is not a real number.)
-
2. Solve. Use the square root principle to eliminate the square.
 $(z + 3)^2 = -17$
- Choose the correct solution.
 A. $-3 \pm \sqrt{17}$
 B. $-17 \pm \sqrt{3}$
 C. no real-number solution
-
3. Solve by completing the square.
 $x^2 - 8x = -12$
- The solutions are
 $x = \square$.
(Simplify your answers. Type an integer or a fraction. Use commas to separate answers. Type N if there is no real number solution.)
-
4. Solve by completing the square.
 $x^2 + 3x - 6 = 4$
- The solution is \square .
(Simplify your answer. Type an integer or a fraction. Use a comma to separate answers as needed.)
-
5. Solve by completing the square.
 $x^2 + 14x = 10$
- $x = \square$
(Use a comma to separate answers as needed. Type an exact answer, using radicals as needed.)
-
6. Solve using the quadratic formula.
 $6x^2 + 19x - 36 = 0$
- $x = \square$
(Simplify your answer. Use a comma to separate answers as needed. Type N if the solution is not a real number.)
-
7. Solve using the quadratic formula.
 $2x^2 - 1 = 9x$
- The solution is $x = \square$.
(Simplify your answer. Type exact an answer, using radicals as needed. Use a comma to separate answers as needed. Type N if the solution is not a real number.)
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8. Solve using the quadratic formula.

$$x^2 - \frac{64}{49} = 0$$

$$x = \square$$

(Simplify your answer. Use a comma to separate answers as needed.)

9. Express in terms of i .

$$\sqrt{-4}$$

$$\sqrt{-4} = \square$$

(Simplify your answer. Type your answer in the form $a + bi$.)

10. Add.

$$(5 + 9i) + (-9 + 8i)$$

$$(5 + 9i) + (-9 + 8i) = \square$$

(Simplify your answer. Type your answer in the form $a + bi$.)

11. Subtract and simplify.

$$(3 + 3i) - (-7 - i)$$

$$(3 + 3i) - (-7 - i) = \square$$

(Simplify your answer. Type your answer in the form $a + bi$.)

12. Multiply.

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

$$(3 + i)(4 - i) = \square$$

(Simplify your answer. Type your answer in the form $a + bi$.)

13. Solve.

$$x^2 + 49 = 0$$

$$x = \square$$

(Use a comma to separate answers as needed. Express complex numbers in terms of i)

14. Solve for x .

$$x^2 - 2x + 17 = 0$$

$$\text{The solution is } x = \square.$$

(Use a comma to separate answers. Type your answer in the form $a + bi$.)

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15. Solve.

$$9x^2 + 25 = 0$$

The solution is $x = \square$.

(Simplify your answer. Use a comma to separate

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1. $\frac{6}{5}, -2$

2. C

3. 2,6

4. -5,2

5. $-7 + \sqrt{59}, -7 - \sqrt{59}$

6. $-\frac{9}{2}, \frac{4}{3}$

7. $\frac{9 + \sqrt{89}}{4}, \frac{9 - \sqrt{89}}{4}$

8. $\frac{8}{7}, -\frac{8}{7}$

9. $2i$

10. $-4 + 17i$

11. $10 + 4i$

12. $13 + i$

13. $7i, -7i$

14. $1 + 4i, 1 - 4i$

15. $\frac{5i}{3}, -\frac{5i}{3}$
