

## 5-9 Practice (Average)

### Complex Numbers

Simplify.

1.  $\sqrt{-49}$   **$7i$**

2.  $6\sqrt{-12}$   **$12i\sqrt{3}$**

3.  $\sqrt{-121s^2}$   **$11s^2i$**

4.  $\sqrt{-36a^2b^4}$   
 **$6|a|b^2i\sqrt{a}$**

5.  $\sqrt{-8} \cdot \sqrt{-32}$   
 **$-16$**

6.  $\sqrt{-15} \cdot \sqrt{-25}$   
 **$-5\sqrt{15}$**

7.  $(-3i)(4i)(-5i)$   
 **$-60i$**

8.  $(7i)^2(6i)$   
 **$-294i$**

9.  $i^{42}$   
 **$-1$**

10.  $i^{55}$   
 **$-i$**

11.  $i^{89}$   
 **$i$**

12.  $(5 - 2i) + (-13 - 8i)$   
 **$-8 - 10i$**

13.  $(7 - 6i) + (9 + 11i)$   
 **$16 + 5i$**

14.  $(-12 + 48i) + (15 + 21i)$   
 **$3 + 69i$**

15.  $(10 + 15i) - (48 - 30i)$   
 **$-38 + 45i$**

16.  $(28 - 4i) - (10 - 30i)$   
 **$18 + 26i$**

17.  $(6 - 4i)(6 + 4i)$   
 **$52$**

18.  $(8 - 11i)(8 - 11i)$   
 **$-57 - 176i$**

19.  $(4 + 3i)(2 - 5i)$   
 **$23 - 14i$**

20.  $(7 + 2i)(9 - 6i)$   
 **$75 - 24i$**

21.  $\frac{6 + 5i}{-2i} - \frac{-5 + 6i}{2}$

22.  $\frac{2}{7 - 8i} - \frac{14 + 16i}{113}$

23.  $\frac{3 - i}{2 - i} - \frac{7 + i}{5}$

24.  $\frac{2 - 4i}{1 + 3i} - 1 - i$

Solve each equation.

25.  $5n^2 + 35 = 0$   **$\pm i\sqrt{7}$**

26.  $2m^2 + 10 = 0$   **$\pm i\sqrt{5}$**

27.  $4m^2 + 76 = 0$   **$\pm i\sqrt{19}$**

28.  $-2m^2 - 6 = 0$   **$\pm i\sqrt{3}$**

29.  $-5m^2 - 65 = 0$   **$\pm i\sqrt{13}$**

30.  $\frac{3}{4}x^2 + 12 = 0$   **$\pm 4i$**

Find the values of  $m$  and  $n$  that make each equation true.

31.  $15 - 28i = 3m + 4ni$   **$5, -7$**

32.  $(6 - m) + 3ni = -12 + 27i$   **$18, 9$**

33.  $(3m + 4) + (3 - n)i = 16 - 3i$   **$4, 6$**

34.  $(7 + n) + (4m - 10)i = 3 - 6i$   **$1, -4$**

35. **ELECTRICITY** The impedance in one part of a series circuit is  $1 + 3j$  ohms and the impedance in another part of the circuit is  $7 - 5j$  ohms. Add these complex numbers to find the total impedance in the circuit.  **$8 - 2j$  ohms**

36. **ELECTRICITY** Using the formula  $E = IZ$ , find the voltage  $E$  in a circuit when the current  $I$  is  $3 - j$  amps and the impedance  $Z$  is  $3 + 2j$  ohms.  **$11 + 3j$  volts**

# Math Expressions Common Core Grade 5 Answer Key

**Ying-Ying Zheng**



**Math Expressions Common Core Grade 5 Answer Key:**

## Decoding **Math Expressions Common Core Grade 5 Answer Key**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Math Expressions Common Core Grade 5 Answer Key**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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