

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

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

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

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

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

Huangqi Zhang



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