

Set A

Simplify the radical.

1. $\sqrt{-9}$

2. $\sqrt{-4}$

3. $-\sqrt{-25}$

4. $-\sqrt{-1}$

5. $\sqrt{-16}$

6. $-\sqrt{-49}$

Set B

Simplify the radical.

7. $\sqrt{-20}$

8. $\sqrt{-75}$

9. $\sqrt{-50}$

10. $\sqrt{-18}$

11. $\sqrt{-96}$

12. $\sqrt{-150}$

Set C

Simplify the radical.

13. $\sqrt{-27a^2}$

14. $\sqrt{-16c^2d^2}$

15. $\sqrt{-50x^2yz^3}$

16. $\sqrt{-320y^9z^{10}}$

17. $\sqrt{-64x^4}$

18. $\sqrt{-100a^4b^2}$

19. $\sqrt{-56a^3b^5}$

20. $\sqrt{-125x^3y^6}$

21. $\sqrt{-150x^7y^8}$

Set D

Simplify the expression.

22. i (What does i equal?)

23. i^2

24. i^3

25. i^4

26. i^5

27. i^6

28. i^7

29. i^8

30. i^{10}

31. i^{12}

32. i^{20}

33. i^{30}

Set E

Perform the indicated operation.

34. $(3 + 2i) + (9 + i)$

35. $(9 + 2i) + (3 - i)$

36. $(-4 + i) + (i - 4)$

37. $(1 + i) + (7 - 4i)$

38. $(5 - 3i) - (-1 + i)$

39. $(2 - i) - (5 + i)$

40. $(1 - 3i) - (9 + i)$

41. $(-4 + 6i) - (-3 + 12i)$