

1-18: Simplify each operation completely.

1. i^2

2. i^{31}

3. i^{22}

4. i^{55}

5. i^{89}

6. i^{42}

7. $\sqrt{-36}$

8. $\sqrt{-8} \cdot \sqrt{-32}$

9. $\sqrt{-50} \cdot \sqrt{8}$

10. $(-4 + 2i) + (6 - 3i)$

11. $(5 - i) - (3 - 2i)$

12. $(2 + i)(3 - i)$

13. $(5 - 2i)(4 - i)$

14. $(4 + 2i)(4 - 2i)$

15. $(-3i)(4i)(-5i)$

16. $(7i)^2(6i)$

17. $(4 + 3i)(2 - 5i)$

18. $3(2 - 8i) - (6 + 2i)$