

Complex Numbers Practice 1.

Name:

Simplify each expression.

1) $\sqrt{40}$

2) $\sqrt{-88}$

3) $-\sqrt{-36}$

4) $(1 + 5i) + (1 - 5i)$

5) $(3 + 2i) - (3 + 2i)$

6) $4 - \sqrt{-25}$

7) $(2 + 6i) - (7 + 9i)$

8) $(3 + 3i) - (4 - 3i)$

9. $(3 + 4i)(1 - 2i)$

10. $(6 + 2i)(1 - 2i)$

11. $(5 - 13i)(5 - 13i)$

12. i^{26}

13. i^{83}

14. i^{100}

15. i^{65}

16. $(-2i)^3$

Solve each equation.

17. $2x^2 + 144 = 0$

18. $9x^2 + 90 = 0$

19. $4x^2 + x + 5 = 0$

20. $3x^2 + 4x + 5 = 0$