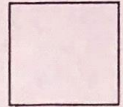


Name: _____

Unit 4: Solving Quadratic Equations



Date: _____ Bell: _____

Homework 4: Pure Imaginary Numbers

**** This is a 2-page document! ****

Directions: Simplify the expressions below.

1. $\sqrt{-25}$

2. $\sqrt{-324}$

3. $\sqrt{-15}$

4. $\sqrt{-44}$

5. $\sqrt{-252}$

6. $\sqrt{-288}$

7. $\sqrt{-8} \cdot \sqrt{24}$

8. $\sqrt{-6} \cdot \sqrt{-12} \cdot \sqrt{-5}$

9. i^{28}

10. i^{49}

11. $15i \cdot 4i$

12. $8i \cdot -9i \cdot 6i$

13. $(-4i)^3 \cdot 2i$

14. $(2i)^5 \cdot (i\sqrt{6})^2$