Alg II: N.CN.1   Name: _____

Know there is a complex number *i* such that i^2 = -1, and every complex number has the form *a* + *bi* with *a* and *b* real.
     Imaginary Numbers: Write square roots of negative numbers in terms of *i*.

Express each number in terms of i and simplify. Show your work.

1. $\sqrt{-4}$

2. $\sqrt{-49}$

3. $\sqrt{-36}$

4. $-\sqrt{-25}$

5. $-\sqrt{-64}$

6. $-\sqrt{-9}$

7. $\dfrac{3}{4}\sqrt{-144}$

8. $\dfrac{5}{8}\sqrt{-64}$

9. $5\sqrt{-81}$

10. $\sqrt{-\dfrac{16}{36}}$

11. $3\sqrt{-\dfrac{25}{81}}$

12. $\dfrac{5}{9}\sqrt{-\dfrac{64}{25}}$

13. $\sqrt{-6}$

14. $-\sqrt{-28}$

15. $3\sqrt{-40}$