

**Unit: Polynomials**  
**Lesson: Complex Number**  
**Quiz**

Name \_\_\_\_\_  
Date \_\_\_\_\_  
Period \_\_\_\_\_

1. Write an example of a complex number.

Simplify each.

2.  $\sqrt{-289}$

3.  $\sqrt{\frac{-4}{25}}$

4.  $(7i)^2$

5.  $7i - (3 + 3i)$

6.  $(2 + 2i) - (5 + i)$

7.  $(7 + 3i)(7 - 3i)$

8.  $(8 - 2i)(5 + i)$

9.  $(6 + 8i)^2$

10.  $\sqrt{-98m^2n^2}$