

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

Quiz: Cyclic Nature of the Powers of  $i$

Simplify.

1.  $2i^8 \cdot 4i^4 \cdot 5i^6$

2.  $i^9 + 3i^5 + i^{11}$

3.  $i^8 - i^{14}$

4.  $(i^7)^{16}$

5.  $(-7i^6)^2$

6.  $i^{17} + 4i^3$

7.  $i^5 \cdot 6i^2$

8.  $i^{19} + i^7 + i^3 - i^5$

9.  $(i^6)^9 \cdot 5i^2$

10.  $7i^3 \cdot i^{16}$

Circle # Correct	0	1	2	3	4	5	6	7	8	9	10
Percentage Score	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%