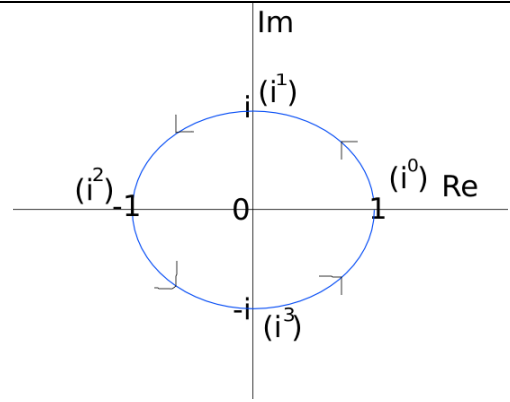


Alg II: N.CN.1









Imaginary Numbers: Simplify powers of i



Student X _____

Student O: _____

Write each given power of i in simplest terms. Work with a partner while playing this game. Student X chooses a problem on the board, works that problem, and then checks the answer using the QR Code provided. *Take care that you are scanning the correct QR Code as you play.* If the answer is correct, Student X wins the square. If the answer is wrong, Student O wins the square. Play continues, back and forth, until one student gets 3 in a row.

<p>1. i^7</p> 	<p>2. i^{68}</p> 	<p>3. $i^3 + i^{18} + i^{33}$</p> 
<p>4. i^{51}</p> 	<p>5. $(i^6)(i^{21})(i^{36})$</p> 	<p>6. i^{13}</p> 
<p>7. $(5i^2)(2i^3)$</p> 	<p>8. i^{10}</p> 	<p>9. i^{76}</p> 