**Day 2: Complex and Imaginary Numbers**

**Powers of *i* Shout out:**



How would you solve: 

**Example: Simplify**

|  |  |
| --- | --- |
|  |  |
|  |  |
|  |  |

* **Complex Number: a number that has a real number and** **an imaginary number**

Standard form: 

**Example 5: Simplify and give your answer in standard form**

a.  b. 

c. 

**Example 6: Simplify**

a.  b.

c.  d. 

e.  f. 

**Example 7: State the additive inverse**

a. b.  c. 

Solving Quadratics of the form \_\_\_\_\_+\_\_\_\_\_ = 0

1. 

1. 

1. 

**Day 3: Quadratic Formula**

Solving by the Quadratic Formula

Standard Form of a Quadratic Quadratic Formula

Solve using the quadratic formula:

1. 2.

3. 4.

Discriminant: Just what is under that radical? (Check under the hood!)

Ex 1: Determine the type and number of solutions of:

a. b.

c. d.

**Day 4 Completing the Square**

**To complete the square:**

1. Move the c term to the other side
3. Add that number to both sides
4. Make a squared binomial with x and
5. Solve for x by square rooting both sides.

Example: Solve by completing the square

a.  b.

c.  d.

e.  f.