SECONDARY MATH II
EXTENDING THE NUMBER SYSTEM
INTRO TO COMPLEX NUMBERS

NAME_____
DATE_____
CLASS_____

1. Solve the equation $x^2 - 4 = 0$

2. Solve the equation $x^2 + 4 = 0$

3. What is the difference between the two equations?

4. Graph $x^2 - 4 = 0$ on your calculator using a standard window. Sketch a graph below.

5. What are the x-intercepts?

6. Now graph $x^2 + 4 = 0$ on your calculator using a standard window. Sketch a graph below.

7. What are the x-intercepts?

8. Given $px^2 + q = 0$ find the values of p and q that result in:

A. A real number solution.

B. An imaginary number solution.