PreCalc Group: _____

Proving Closure Practice

1. Prove or disprove that quadratic equations are closed under the following operations:
   a. Addition
   b. Multiplication

2. If ★ is a made up operation so that a★b = a(a+b), is the set of even numbers closed under the operation ★ ? Prove or disprove it.

3. Make up your own operation with a symbol and definition. Decide if it is closed or not closed.