# 6.4 Activity: Completing the Square

For problems 1-4, find the value of c that makes the expression a perfect square trinomial. Then write the expression as the square of a binomial.

1. 
2. 
3. 
4. 

Solve each equation by completing the square.

1. 
2. 
3. 
4. 

Write the quadratic equation in vertex form and identify the vertex.

1. 
2. Given a rectangle with the following dimensions:

Area = 100 units squared

Length = x + 10 units

Width = x units

Find the value of x. Use the completing the square method.