Warm Up 3.5.1

Name_____ Period _____

Find three different values for c that allow the quadratic expression to factor into two binomials.

1. $x^2 - 3x + c$ 　　　　　　　　2. $x^2 + 2x - c$ 　　　　　　　3. $x^2 + 4x + c$

Solve each of the quadratic equations below. Be sure that you find all solutions.

4. $4 = (x + 3)^2 - 5$ 　　　　5. $0 = x^2 - 18x + 81$ 　　　　6. $0 = (x - 8)^2 - 15$

7. Given the vertex form of a quadratic below with an a value of 1 solve it for x.

$$0 = (x - h)^2 + k$$

Are there any values h or k for which the solution would not make sense? Why?