

# HOMWORK: FACTORING

NAME: \_\_\_\_\_

DAY 13 DUE: \_\_\_\_\_

**Factor each expression. If not possible, write PRIME.**

1.  $x^2 + x - 6$

2.  $x^2 - 8x + 15$

3.  $x^2 + 8x + 15$

4.  $9x^2 - 100y^2$

5.  $6x^2 + 5x + 1$

6.  $3x^2 + 7x + 4$

7.  $64x^2 + 24x + 9$

8.  $7x^2 + 49x$

Solve.

9.  $25x^2 - x = 0$

10.  $-x^2 + 5x - 4 = 0$

**CHOOSE ONE OF THE FOLLOWING TO COMPLETE =)**

11. Write and solve an equation that involves factoring a difference of squares.

12. Write and solve an equation that involves factoring a trinomial ( $A = 1$ ).

13. Write and solve an equation that involves factoring a trinomial ( $A \neq 1$ ).