Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_

# WS 9-3

# Factoring Quadratics

 $a^{2}-b^{2}=(a+b)(a-b)$ $a^{2}+2ab+b^{2}=\left(a+b\right)^{2}$ $a^{2}-2ab+b^{2}=(a-b)^{2}$

Factoring the following expressions

1. $6x^{2}-150$ 2. $x^{2}-m^{2}$
2. $-28t^{2}+7y^{2}$ 4. $16-81w^{2}$

 5. $c^{2}-20c+100$ 6. $x^{2}-14x+49$

 7. $4z^{2}+12z+9$ 8. $36d^{2}-84d+49$