Name Date: Period:

HW #7-1: Factoring Quadratic Expressions with a = 1 (Algebra 1 Review)

Quadratic Expression: ax^2+bx+c where $a \neq 0$

Factoring when $a=1$: x^2+bx+c factors into...

$(x \_\_\_\_)(x \_\_\_\_)$

Example: $x^2-7x-18$

$(x-9)(x+2)$

$*\ -9+2=-7$ and $(-9)(2)=-18$

these numbers add to "b" and also multiply to "c"

1. $m^2 - 9m + 8$

2. $x^2 - 16x + 63$

3. $a^2 + 12a + 35$

4. $k^2 - 13k + 36$

5. $x^2 + 5x - 24$

6. $b^2 - 3b - 40$