

NAME _____

Module 12 Simplifying Algebraic Expressions
by Factoring Polynomials
Lesson 2 Factoring by Grouping



guided
practice

Set 1

1. Factor: $x(x - 4) + 4(x - 4)$

$(x - 4)(x + 4)$

2. Factor: $a(a + b) + b(a + b)$

$(a + b)(a + b)$ or $(a + b)^2$

3. Factor: $(x + y) + z(y + x)$

$(x + y)(1 + z)$

Set 2

1. Factor: $x^2 + xy + xy + y^2$

$(x + y)(x + y)$ or $(x + y)^2$

2. Factor: $ab + 7 + 7b + a$

$(b + 1)(a + 7)$

3. Factor: $3rs - 4 + 12r - s$

$(3r - 1)(s + 4)$
