Module 12 Simplifying Algebraic Expressions
by Factoring Polynomials
Lesson 6 Factoring Using Several Methods

Set 1

1. Factor completely: $4x^3 - 100x$

$4x(x + 5)(x - 5)$

2. Factor completely: $2x^2 + 12x + 10$

$2(x + 5)(x + 1)$

3. Factor completely: $6b^3 - 9b^2 - 6b$

$3b(b - 2)(2b + 1)$

4. Factor completely: $2a^6 - 162a^2$

$2a^2(a^2 + 9)(a + 3)(a - 3)$