

GCF and Multiplying Practice

Name: _____

First, identify the greatest common factor of the polynomial, then factor the polynomial.

Polynomial	GCF	Factored Form
$16p^4 + 4p^3$		
$9x + 36$		
$63 + 45b$		
$6n^3 - 3n^5$		
$7b - 12b^3$		
$-6r^5 - 6r^4$		
$14a + 21a^2 + 21a^3$		
$10n^3 - 9n^2 + n$		
$28v^2 - 8v - 36$		
$9x^6 - 63x^3 - 90x^2$		
$3m^2 + 9m + 27$		
$12r^2 + 4r - 12$		
$81p^5 + 63p^4 - 9p$		
$25m + 30m^2 + 45m^5$		

Practice: Multiplying Polynomials

1. $(3x + 5)(x + 1)$

5. $(3x + 5)(3x - 5)$

2. $(7x - 3)(2x + 7)$

6. $(3x + 2)(3x + 2)$

3. $(-2x + 5)(x - 5)$

7. $(x - 2)(x + 2)$

4. $(2x + 3)(x - 11)$

8. $(2x - 5)(-2x + 5)$

Practice: Diamond Problems

