

Unit Four: Variable Expressions

Name: _____

Key

Assignment 4.6 Factoring Expressions

Date: _____

LEARNING TARGETS

- I can factor out the greatest common factor from an algebraic expression

1) $4 + 4x^2$

$4(1+x^2)$

2) $12x^2 + 16x$

$4x(3x+4)$

3) $-2x^3 + x$

$x(-2x^2 + 1)$

4) $4x^3 + 4x^2$

$4x^2(x+1)$

5) $20a + 15$

$5(4a+3)$

6) $4x^2 + 5x$

$x(4x+5)$

7) $12p^4 + 8p^2$

$4p^2(3p^2+2)$

8) $-10r^2 + 5r$

$5r(-2r+1)$

9) $6x^5 + 2x^4$

$2x^4(3x+1)$

10) $3n + 3$

$3(n+1)$

11) $-6k + 4$

$2(-3k+2)$

12) $4v^3 - 8$

$4(v^3-2)$

13) $6 + 4p^2$

$2(3+2p^2)$

14) $-15b + 5$

$5(-3b+1)$

15) $8a + 4$

$4(2a+1)$

16) $-10 + 5p$

$5(-2+p)$