

# Objective #10

## Factor expressions w/ rational exponents (page 2 of 2)

Factor:

3.  $3x^{-1/6} - 15x^{17/6}$

What do they have in common?  
 $3x^{-1/6}$

Factor!  $3x^{-1/6} (1 - 5x^{18/6})$

$3x^{-1/6} (1 - 5x^3)$

4.  $16x^{-1/6} - 8x^{5/6} + 4x^{29/6}$

has  $4x^{-1/6}$  in common

Factor!  $4x^{-1/6} (4 - 2x^{6/6} + x^{30/6})$

$4x^{-1/6} (4 - 2x + x^5)$