

# Factoring with a GCF

Greatest Common Factors (GCF): the \_\_\_\_\_ number that goes into each term/number

3, 15: \_\_\_\_\_

12, 28: \_\_\_\_\_

$4x, 10x^2$ : \_\_\_\_\_

$20x^4, 24x^7$ : \_\_\_\_\_

$14x^2y^4, 22x^3y^2$ : \_\_\_\_\_

$8a^3bc^4, 20ab^3c^2$ : \_\_\_\_\_

When possible, take out the GCF, which is the opposite of the \_\_\_\_\_ Property.

$$5x^2 + 20x$$

$$-12x - 18$$

$$-4x^2 + 2x$$

*Examples: Factor each polynomial.*

1.  $15x + 25$

2.  $-4x + 12$

3.  $3x^2 - 24x$