

GCF Factoring

Greatest Common Factor: The largest number that divides evenly into a set of numbers.

When dealing with variables, it is the lowest degree of a variable common to every term.

Examples: Factor the GCF of each of the following:

1. $(8xy - 2y)$	2. $(27x^3 - 9x^2)$	3. $(42xy^5 + 7x^2)$	4. $(2x^2 - 12x)$
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To factor the GCF out of an expression, divide each term by the GCF and write your answer in undistributed form.

Factor the GCF out of each of the following:

5. $10x^3 - 5x$	6. $y^5 + y^2$	7. $27x - 81xy^2$	8. $10x - 14y + 40x^2$
9. $x^3y - x^5yz^3 + x^2y^2$	10. $17z^2 - 68zy^2$	11. $2x - 16y$	12. $5y + 20y^2 - 125$