

# Factoring Polynomials with Common Monomial Factor

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# What is Factoring?

It is the reverse process of getting the product of any number or algebraic expression.

# Example

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Multiplication:

$$7 \times 8 = 56$$

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Factoring:

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Factoring:

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Multiplication:

$$a(a + b + c) = a^2 + ab + ac$$

Factoring:

$$a^2 + ab + ac = a(a + b + c)$$

# What is Factoring Polynomial?

To factor a polynomial means to describe the algebraic expression as the product of two or more expressions.

# What is a Common Factor?

When a factor is contained in every algebraic expression term, it is called the common factor.

# How to Factor Polynomials with Common Monomial Factor?

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1. Factor out the greatest common monomial of all terms of the given expression.

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1. Factor out the greatest common monomial of all terms of the given expression.
2. Divide each term of the expression by the greatest common monomial factor. The resulting expression is the other factor.



**Thank you for attending the  
virtual class.**