

# R.4 – Factoring

## Skills

- R.4a - Factor polynomials using GCF(Greatest common factor) only.
- R.4b - Factor polynomials using grouping(multiple GCF).
- R.4c - Factor trinomials with type  $x^2 + bx + c$  ( $a=1$ ).
- R.4d - Factor trinomials with type  $ax^2 + bx + c$  ( $a \neq 1$ ).
- R.4e - Factor binomials using the difference of two squares.
- R.4f - Factor using rules for sum and the difference of two cubes.
- R.4g - Factor polynomials require multiple steps and methods.

## Introduction

Example 1

3)

Example 2	9)
Example 3	21)
Example 6 and Example 7	
35)	45)
Example 8	
49)	57**)

Example 10

67)

69)

## **R.4 - EXTRA PRACTICE**

**Extra Practice R.4a on p.29 #1-8** - Follow the instructions in the book and complete the problems.


**Extra Practice R.4b on p.29 #9-18** - Follow the instructions in the book and complete the problems.


**Extra Practice R.4c on p.29 #19-31** - Follow the instructions in the book and complete the problems.

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**Extra Practice R.4d on p.29 #35-44** - Follow the instructions in the book and complete the problems.


**Extra Practice R.4e on p.29 #47-50** - Follow the instructions in the book and complete the problems.

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**Extra Practice R.4f on p.29 #67-70, 75, 76** - Follow the instructions in the book and complete the problems.

$$A^3 + B^3 = (A + B)(A^2 - AB + B^2);$$
$$A^3 - B^3 = (A - B)(A^2 + AB + B^2).$$


**Extra Practice R.4g on p.29 #31-34, 45, 46, 51-56, 71-74, 77-120, 121-132** - Follow the instructions in the book and complete the problems.

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## R.4 - IXL PRACTICE

IXL - A1-X.1 [GCF of monomials](#)

Date				Final
Grade				
Initials				

R.4a

IXL - A1-X [New! LCM of monomials](#)

Date				Final
Grade				
Initials				

R.4a

IXL - A1-X.2 [Factor out a monomial](#)

Date				Final
Grade				
Initials				

R.4a

IXL - A1-X.7 [Factor by grouping](#)

Date				Final
Grade				
Initials				

R.4b

IXL - A1-X.4 [Factor quadratics with leading coefficient 1](#)

Date				Final
Grade				
Initials				

R.4c

IXL - A1-X.5 [Factor quadratics with other leading coefficients](#)

Date				Final
Grade				
Initials				

R.4d

IXL - A1-X.6 [Factor quadratics: special cases](#)

Date				Final
Grade				
Initials				

R.4e

IXL - A1-X.9 [Factor polynomials](#)

Date				Final
Grade				
Initials				

R.4g

Closing Reflection: