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Kuta Software - Infinite  
Algebra 1 Name \_\_\_\_\_

Factoring Special

Cases Date \_\_\_\_\_

Period \_\_\_\_ Factor each  
completely. 1)  $16n^2 - 9$  2)  $4m^2 - 25$  3)  $16b^2 - 40b + 25$  4)  $4x^2 - 4x + 1$  5)  $9x^2 - 1$  6)  $n^2 - 25$  7)  $n^4 - 100$  8)  $a^4 - 9$  9)  $k^4 - 36$  10)  $n^4 - 49$  -1-©2 12q0 ...

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**Cases - Kuta**

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College Algebra.

Module 2: Polynomial

and Rational

Expressions. Search

for: Factoring Special

Cases. Learning

Outcomes. Factor a

perfect square

trinomial. Factor a

difference of squares.

Factor a sum and

difference of cubes.

Factor an expression

with negative or

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fractional exponents.

Algebra 1

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**Cases | College**

**Algebra**

This page is to show how to factor when a binomial or trinomial falls into a special case. How to recognize if a binomial or trinomial are a special case. Starting with the binomial. If it is a binomial we focus on the "difference of perfect squares" Here

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Special Cases  
is a video from Khan  
Academy to help.

## Answers **Factoring by Special Cases - Algebra 1- Quadratics**

Algebra 1A Sec. 8.7 -  
Factoring Special

Cases Name\_\_\_\_\_ ID: 1

Date\_\_\_\_\_ Period\_\_\_\_\_

©b W2q0v1p7r

cKzult[an

nSaocf]tGwwavrkeM

ILHLgCR.d [ AA^InIP

Xruiegkhqt[sj

NroeNsbeOr]vfecdG.

Factor each



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completely. 1)  $p^2 - 4$  2)

$x^2 - 2x + 1$  3)  $n^2 + 10n$

$+ 25$  4)  $x^2 - 8x + 16$  5)

...

## **Infinite Algebra 1 - Sec. 8.7 - Factoring Special Cases**

An online Factoring special cases calculator to calculate the factoring polynomials special cases based on the polynomial expression you provide. When factorizing some

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polynomials, they follow some special pattern they are referred here as special case expressions.

## **Factoring Special Cases Calculator - Easycalculation.com**

Intermediate Algebra.

Module 9: Factoring.

Search for: Special

Cases - Squares.

Learning Outcomes.

Factor special

products; Some people

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Answers

find it helpful to know when they can take a shortcut to avoid doing extra work. There are some polynomials that will always factor a certain way, and for those, we offer a shortcut.

## **Special Cases - Squares | Intermediate Algebra**

The special cases are: trinomials that are perfect squares, a 2 +

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Special Cases

$2ab + b^2$  and  $a^2 -$

$2ab + b^2$ , which factor

as  $(a + b)^2$  and  $(a - b)^2$ , respectively;

binomials that are the

difference of two

squares,  $a^2 - b^2$ ,

which factors as  $(a +$

$b)(a - b)$ . For some

polynomials, you may

need to combine

techniques (looking for

common factors ...

...

## **Factoring: Special Cases**

here are two more

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Special Cases

formulas to handle special cases of cubic polynomials: Say, we like to factor . By

formula (6), we can write In this case the factorization is complete, since the polynomial is an irreducible quadratic polynomial. What about the polynomial ? We first write this as the difference of two cubes, and then use formula (7):

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**Factoring: Some  
Special Cases**

Algebra. Factoring

Calculator. Step 1:

Enter the expression  
you want to factor in  
the editor. The

Factoring Calculator

transforms complex

expressions into a

product of simpler

factors. It can factor

expressions with

polynomials involving

any number of variables

as well as more

complex functions.

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## **Factoring Calculator - Mathway | Algebra Problem Solver**

If you are factoring a quadratic like  $x^2+5x+4$  you want to find two numbers that Add up to 5 Multiply together to get 4 Since 1 and 4 add up to 5 and multiply together to get 4, we can factor it like:  $(x+1)(x+4)$

## **Factoring Calculator - MathPapa**

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Special Cases

When factoring

expressions, there are

a couple of special

cases, or shortcuts,

that can be very

helpful. The trick is

being able to recognize

when these cases

come up!The

Difference of Perfect

Squares This first

special case isn't that

difficult

**Factoring Special  
Cases Worksheets -  
Free Math**

*Page 16/26*



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## PDF Factoring

### Special Cases

#### **Worksheets**

Purplemath. When you learn to factor quadratics, there are three other formulas that they usually introduce at the same time. The first is the "difference of squares" formula. Remember from your translation skills that a "difference" means a "subtraction". So a difference of squares is something that looks like  $x^2 - 4$ . That's

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because  $4 = 2^2$ , so we really have  $x^2 - 2^2$ , which is a ...

## **Special Factoring: Differences of Squares | Purplemath**

This algebra video tutorial focuses on factoring special cases such as factoring different forms of binomials and special products of polynomials specifically,

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**Factoring Binomials  
& Trinomials -  
Special Cases -  
YouTube**

Factoring: Special  
Cases Part II. 7 videos.

Concept. 3 min .

Problem 1. 1 min .

Problem 2. 2 min .

Problem 3. 2 min .

Problem 4. 3 min .

Problem 5. 1 min .

Problem 6. 3 min .

Previous Unit.

Polynomials. ... to  
torture students and

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one of the things they tell us to do is to give Geometry problems to students who are only in Algebra class kind of ...

**Factoring: Special Cases Part I - Problem 2 - Algebra**

...

Algebra 1 B. STUDY.  
Flashcards. Learn.  
Write. Spell. Test.  
PLAY. Match. Gravity.  
Created by.  
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: Polynomials and

Factoring Lesson 4 :

Multiplying Special

Cases. Terms in this

set (8) Find the degree

of the monomial

$6p^3q^2$ . C. 5.

Simplify

$(7t^2+9)+(6t^2+8)$  B.

$13t^2+17$ . Simplify

$3n(4n^2+5n)$  A.

$12n^3+15n^2$ . factor

$18s-63$ . D ...

**Algebra 1 B**

**Flashcards | Quizlet**

Algebra 1 answers to

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Chapter 8 -  
Polynomials and  
Factoring - 8-4  
Multiplying Special  
Cases - Lesson Check -  
Page 495 1 including  
work step by step  
written by community  
members like you.

Textbook Authors: Hall,  
Prentice, ISBN-10:  
0133500403, ISBN-13:  
978-0-13350-040-0,  
Publisher: Prentice Hall

**Algebra 1 Chapter 8  
- Polynomials and**

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### **Factoring - 8-4 ...**

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Algebra 1 Name \_\_\_\_\_

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Period \_\_\_\_ Factor each

completely. 1)  $16n^2 - 9$

2)  $4m^2 - 25$  3)  $16b^2$

$- 40b + 25$  4)  $4x^2 -$

$4x + 1$  5)  $9x^2 - 1$  6)

$n^2 - 25$  7)  $n^4 - 100$  8)

$a^4 - 9$  9)  $k^4 - 36$  10)

$n^4 - 49$  11)  $98n^2 ...$

### **Factoring Special**

### **Cases -**

**murrieta.k12.ca.us**

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Improve your math knowledge with free questions in "Factor quadratics: special cases" and thousands of other math skills.

## **IXL - Factor quadratics: special cases (Algebra 1 practice)**

Integrated Algebra  
Worksheet Factoring  
Special Cases Section:  
Name: 2 Mr. Lin 3)  $x^2 - 20x + 100$  4)  $2x^2 - 8x + 16$  5)  $9x^2 + 24x +$



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## Special Cases

$$16x^2 - 6) 4x + 12x + 9$$

$$7) 25x^2 - 40x + 16$$

$$8) 16x^2 - 56x + 49$$

### 3. Factoring

polynomials completely

a. A polynomial is factored completely when each of its factors cannot be factored further.

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