

File

Home

Insert

Design

Layout

References

Mailings

Review

View

ACROBAT

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Lucida Sans UI

12

A[▲]A[▼]Aa[▼]abc[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]
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ab⁴c Replace

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B

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U[▼]abc[▼]x²₁x²₂A[▼]ab[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]A[▼]

Let's look at expanding first:

$$(5n - 3)(5n + 3) = 25n^2 + 15n - 15n - 9$$

$$= 25n^2 - 9$$

$$(7x - 4)(7x + 4)$$

$$= 49x^2 + 28x - 28x - 16$$

$$= 49x^2 - 16$$

In the examples above, try figuring out how to work backwards from the last step to the first step.

Difference of Squares- the polynomial must be a _____

- the 1st and 2nd terms must be perfect squares
- there must be a _____ sign between the two terms

Unknown Author
binomial

Unknown Author
minus



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Home

Insert

Design

Layout

References

Mailings

Review

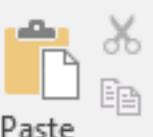
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12

A⁺A⁻Aa⁺Aa⁻A^{abc}A^AA^BA^CA^DA^EA^FA^GA^HA^IA^JA^KA^LA^MA^NA^OA^PA^QA^RA^S

B

I

U

abc

x²x³

A

ab

A

A

字

A⁺A⁻A¹A²A³A⁴A⁵A⁶A⁷A⁸A⁹A¹⁰A¹¹A¹²A¹³A¹⁴A¹⁵A¹⁶A¹⁷A¹⁸A¹⁹A²⁰A²¹A²²A²³A²⁴A²⁵A²⁶A²⁷A²⁸A²⁹A³⁰A³¹A³²A³³A³⁴A³⁵A³⁶A³⁷A³⁸A³⁹A⁴⁰A⁴¹A⁴²A⁴³A⁴⁴A⁴⁵A⁴⁶A⁴⁷A⁴⁸A⁴⁹A⁵⁰A⁵¹A⁵²A⁵³A⁵⁴A⁵⁵A⁵⁶A⁵⁷A⁵⁸A⁵⁹A⁶⁰A⁶¹A⁶²A⁶³A⁶⁴A⁶⁵A⁶⁶A⁶⁷A⁶⁸A⁶⁹A⁷⁰A⁷¹A⁷²A⁷³A⁷⁴A⁷⁵A⁷⁶A⁷⁷A⁷⁸A⁷⁹A⁸⁰A⁸¹A⁸²A⁸³A⁸⁴A⁸⁵A⁸⁶A⁸⁷A⁸⁸A⁸⁹A⁹⁰A⁹¹A⁹²A⁹³A⁹⁴A⁹⁵A⁹⁶A⁹⁷A⁹⁸A⁹⁹A¹⁰⁰A¹⁰¹A¹⁰²A¹⁰³A¹⁰⁴A¹⁰⁵A¹⁰⁶A¹⁰⁷A¹⁰⁸A¹⁰⁹A¹¹⁰A¹¹¹A¹¹²A¹¹³A¹¹⁴A¹¹⁵A¹¹⁶A¹¹⁷A¹¹⁸A¹¹⁹

Unknown Author

binomial

Unknown Author

minus

In the examples above, try figuring out how to work backwards from the last step to the first step.

Difference of Squares- the polynomial must be a binomial

- the 1st and 2nd terms must be perfect squares
- there must be a - sign between the two terms

$$49n^2 - 4$$

$$\begin{aligned}\sqrt{49} &= 7 \\ \sqrt{4} &= 2\end{aligned}$$

$$x^2 - 25$$

$$\begin{aligned}\sqrt{25} &= 5 \\ (x-5)(x+5) &\quad \sqrt{25} = 5\end{aligned}$$

$$= (7n-2)(7n+2)$$

$$75n^4 - 27$$

$$\sqrt{75}$$

not
factorable

$$\sqrt{27} =$$

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Home

Insert

Design

Layout

References

Mailings

Review

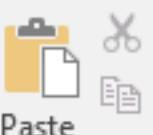
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A⁺A⁻A^{abc}A^AA^BA^CA^IA^UA^{abc}A^xA^{x^2}A^AA^{ab}A^AA^AA^字

4. $\frac{6m^2 - 150}{6}$

$$= 6(m^2 - 25)$$

$$= 6(m - 5)(m + 5)$$

5. $20x^2 - 7x - 6$

$$\sqrt{1} = 1$$

$$\sqrt{25} = 5$$

6. $7v^2 + 34v - 5$

7. $4x^2 - 12xy - 27y^2$

