

Let's look at expanding first:

$$(5n - 3)(5n + 3)$$

$$= 25n^2 + 15n - 15n - 9$$

$$= 25n^2 - 9$$

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

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

$$= 49x^2 - 16$$

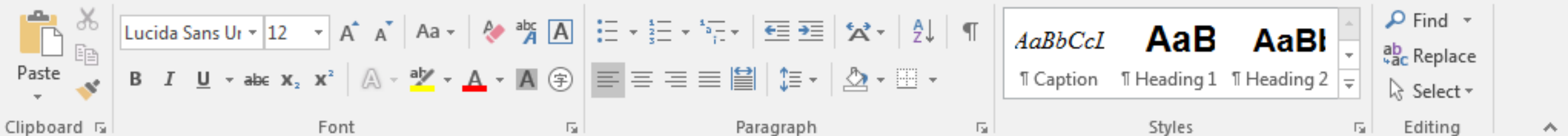
In the examples above, try figuring out how to work backwards from the last step to the first step.

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

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binomial

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minus



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Difference of Squares– the polynomial must be a

binomial

- the 1st and 2nd terms must be perfect squares
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$$49n^2 - 4$$

$$\sqrt{49} = 7$$

$$\sqrt{4} = 2$$

$$x^2 - 25$$

$$\sqrt{1} = 1$$

$$\sqrt{25} = 5$$

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

$$= (x - 5)(x + 5)$$

$$75n^4 - 27$$

$$\sqrt{75}$$

$$\sqrt{27} =$$

not factorable



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