**6.2 – Multiplying and Dividing Rational Expressions**

Similarly to numerical fractions, we are going to use:

$ \frac{A}{B}×\frac{C}{D}=\frac{AC}{BD}$ and $\frac{A}{B}÷\frac{C}{D}=\frac{A}{B}×\frac{D}{C}$

**ATTENTION** : In the 1st formula, the original expression exists if $B\ne 0$ and $D\ne 0$

 In the 2nd formula, the original expression exists if $B\ne 0$, $D\ne 0$ and $C\ne 0$

Examples : 1) $A=\frac{x^{2}-x-12}{x^{2}-9}×\frac{x^{2}-4x+3}{x^{2}-4x}$

 Restrictions :

 Simplification :

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 2) $B=\frac{x^{2}-4}{x^{2}-4x}÷\frac{x^{2}+x-6}{x^{2}+x-20}$

 Restrictions :

 Simplification :

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