Tým: 
Úkol: Rozložte na součin 
Výsledky vyškrtni z tabulky (výsledky leží na políčkách, které spolu sousedí celou stranou nebo rohem).

\[
\begin{align*}
x^2 - 16 &= \frac{(x - 7) \cdot (x + 7)}{2} \\
4 - x^2 &= (x + 2) \cdot (x - 2) \\
x^2 - 121 &= (x - 11) \cdot (x + 11) \\
x^2 + 4x + 4 &= (x + 2) \cdot (x + 2) \\
x^2 - 10x + 25 &= (x - 5) \cdot (x - 5) \\
x^2 - 100 &= (x - 10) \cdot (x + 10) \\
x^2 - 64 &= (x - 8) \cdot (x + 8) \\
x^2 - 24x + 144 &= (x - 12) \cdot (x - 12) \\
x^2 - 81 &= (x - 9) \cdot (x + 9) \\
2x^2 + 24x + 72 &= (2x + 12) \cdot (x + 6) \\
x^2 - 14x + 49 &= (x - 7) \cdot (x - 7) \\
3x^2 - 27 &= (3x - 9) \cdot (x + 3) \\
5x^2 - 5 &= (5x - 1) \cdot (x + 1) \\
18 - 12x + 2x^2 &= (3 - x) \cdot (3 - x) 
\end{align*}
\]

<table>
<thead>
<tr>
<th>(x - 7)</th>
<th>(x - 7)</th>
<th>2</th>
<th>(x + 6)</th>
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<th>(x - 10)</th>
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<tbody>
<tr>
<td>(x + 2)</td>
<td>(x - 5)</td>
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<td>(x - 4)</td>
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<td>(2 - x)</td>
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<td>(x - 3)</td>
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<tr>
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<td>2</td>
<td>(3 - x)</td>
<td>(3 - x)</td>
<td>(x + 9)</td>
<td>(x +8)</td>
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</tbody>
</table>

Řešení – po vyškrtnání výrazů v tabulce zbudou 3 políčka. Hodnoty na políčkách co nejsou škrtnutá, vynásob.

Výsledek – v řešení dosaď za x číslo 5 a vypočítej:

Máš to správně?
Nápověda: 273,15K
Řešení:

\[ 2 \ (x – 5) \ (x + 5) = 2x^2 - 50 \]

\[ x = 5 \quad 2.25-50 = 0 \]

<table>
<thead>
<tr>
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\[
\begin{align*}
\text{x}^2 - 16 &= (x - 4)(x + 4) \\
\text{x}^2 - 81 &= (x - 9)(x + 9) \\
\text{x}^2 - 100 &= (x - 10)(x + 10) \\
\text{x}^2 - 64 &= (x - 8)(x + 8) \\
4 - \text{x}^2 &= (2 - x)(x + 2) \\
\text{x}^2 - 121 &= (x - 11)(x + 11) \\
\text{x}^2 + 4x + 4 &= (x + 2)(x + 2) \\
\text{2x}^2 + 24x + 72 &= 2(x + 6)(x + 6) \\
\text{x}^2 - 10x + 25 &= (x - 5)(x - 5) \\
\text{x}^2 - 24x + 144 &= (x - 12)(x - 12) \\
\text{x}^2 - 14x + 49 &= (x - 7)(x - 7) \\
3\text{x}^2 - 27 &= 3(x - 3)(x + 3) \\
5\text{x}^2 - 5 &= 5(x - 1)(x + 1) \\
18 - 12x + 2\text{x}^2 &= 2(3 - x)(3 - x)
\end{align*}
\]