

$$(x - 4)^2 - 9 =$$

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$$= (x^2 - 2 \cdot x \cdot 4 + 4^2) - 9 =$$

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$$= x^2 - 8x + 16 - 9 =$$

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$$= x^2 - 8x + 7$$

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$$= x^2 - 8x + 16 - 9 =$$

$$= x^2 - 8x + 7$$

$$x^2 - 8x + 7 = \overbrace{x^2 - 8x + 4^2 - 4^2}^0 + 7$$

$$(x-4)^2 - 9 =$$

$$= (x^2 - 2 \cdot x \cdot 4 + 4^2) - 9 =$$

$$= x^2 - 8x + 16 - 9 =$$

$$= x^2 - 8x + 7$$

$$x^2 - 8x + 7 = \overbrace{(x^2 - 2 \cdot x \cdot 4 + 4^2)}^0 - 4^2 + 7 =$$

$$= (x-4)^2 - 16 + 7 =$$

$$\begin{aligned}
 (x-4)^2 - 9 &= \\
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 \end{aligned}$$

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 x^2 - 8x + 7 &= \overbrace{(x^2 - 2 \cdot x \cdot 4 + 4^2)}^0 - 4^2 + 7 = \\
 &= (x-4)^2 - 16 + 7 = \\
 &= (x-4)^2 - 9
 \end{aligned}$$

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 x^2 - 8x + 7 &= \overbrace{(x^2 - 2 \cdot x \cdot 4 + 4^2)}^0 - 4^2 + 7 = \\
 &= (x-4)^2 - 16 + 7 = \\
 &= (x-4)^2 - 9
 \end{aligned}$$

Praktický postup:

$$\begin{aligned}
 (x-4)^2 - 9 &= \\
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 x^2 - 8x + 7 &= \overbrace{(x^2 - 2 \cdot x \cdot 4 + 4^2)}^0 - 4^2 + 7 = \\
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 \end{aligned}$$

Praktický postup:

$$x^2 - 8x + 7 =$$

$$(x-4)^2 - 9 =$$

$$= (x^2 - 2 \cdot x \cdot 4 + 4^2) - 9 =$$

$$= x^2 - 8x + 16 - 9 =$$

$$= x^2 - 8x + 7$$

$$x^2 - 8x + 7 = \overbrace{x^2 - 8x + 4^2}^0 - 4^2 + 7 =$$

$$= (x-4)^2 - 16 + 7 =$$

$$= (x-4)^2 - 9$$

Praktický postup:

$$\begin{array}{l} x^2 - 8x + 7 = \\ \begin{array}{l} -8 : 2 = -4 \quad \nearrow \quad 4^2 = 16 \rightarrow \text{musím odečíst 16} \\ \searrow \\ (x - 4)^2 - 16 + 7 = \end{array} \end{array}$$

$$\begin{aligned}
 (x-4)^2 - 9 &= \\
 &= (x^2 - 2 \cdot x \cdot 4 + 4^2) - 9 = \\
 &= x^2 - 8x + 16 - 9 = \\
 &= x^2 - 8x + 7
 \end{aligned}$$

$$\begin{aligned}
 x^2 - 8x + 7 &= \overbrace{(x^2 - 2 \cdot x \cdot 4 + 4^2)}^0 - 4^2 + 7 = \\
 &= (x-4)^2 - 16 + 7 = \\
 &= (x-4)^2 - 9
 \end{aligned}$$

Praktický postup:

$$\begin{aligned}
 x^2 - 8x + 7 &= \quad 4^2 = 16 \rightarrow \text{musím odečíst 16} \\
 &\quad \swarrow \begin{smallmatrix} -8 : 2 = -4 \end{smallmatrix} \\
 &= (x - 4)^2 - 16 + 7 = \\
 &= (x-4)^2 - 9
 \end{aligned}$$