

$$x^3 + 8 = \underline{\underline{(x+2) \cdot (x^2 - 2x + 4)}}$$

$$\begin{aligned} x^3 - 1 &= x \cdot x \cdot x - \\ - 1 &= x^3 - 1^3 = \\ &= \underline{\underline{(x-1)(x^2 + x + 1)}} \end{aligned}$$

11 25-9:04

$$\begin{aligned} 27x^3 - 1 &= (3x - 1) \cdot \\ (9x^2 + 3x + 1) \end{aligned}$$

$$\begin{aligned} x^6 + 1 &= (x^2 + 1) \cdot \\ (x^2)^3 + 1 &= (x^2 + 1) \cdot \\ (x^4 - x^2 + 1) \end{aligned}$$

11 25-9:09

$$x^6 - 1 = (x^2)^3 - 1 =$$

$$= (x^2 - 1) \cdot (x^4 + x^2 + 1) =$$

$$= (x+1) \cdot (x-1) \cdot (x^4 + x^2 + 1)$$

$$x^6 - 1 = (x^3)^2 - 1$$

$$= (x^3 - 1) \cdot (x^3 + 1)$$

$$\rightarrow = (x-1)(x^2+x+1)(x+1)(x^2-x+1)$$

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$$(x+1)(x+2) = x^2 + (1+2)x + 1 \cdot 2$$

$$x^2 + \underbrace{(3)}_{1+2}x + \underbrace{2}_{1 \cdot 2}$$

$$(x+p)(x+q) = x^2 + \underbrace{px+qx}_{(p+q)x} + pq$$

$$\boxed{x^2 + (p+q)x + p \cdot q}$$

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$$x^2 + 7x + 10 = \\ = (x+2)(x+5)$$

$$x^2 - 2x - 3 = \\ = (x+1) \cdot (x-3)$$

11 25-9:18

$$x^2 + 9x + 20 = \\ \underline{\underline{(x+4)(x+5)}}$$

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

jde ✓

11 25-9:27

$$x^2 - x - 6 =$$
$$= \underline{\underline{(x+2)(x-3)}}$$

$$x^2 + 3x - 18 =$$
$$= \underline{\underline{(x+6)(x-3)}}$$

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$$x^2 + 17x + 30 =$$
$$= \underline{\underline{(x+15)(x+2)}}$$

$$x^2 - 5x + 6 =$$
$$= \underline{\underline{(x-2)(x-3)}}$$

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

$$\underline{\underline{(x+4) \cdot (x+4)}}$$

$$x^2 - 8x + 12 =$$

$$\underline{\underline{(x-6) \cdot (x-2)}}$$

11 25-9:32

$$3y^2 + 4y + 1 =$$

$$= 3y^2 + 3y + 1y + 1 =$$

$$= 3y(y+1) + 1(y+1) =$$

$$\underline{\underline{(y+1) \cdot (3y+1)}}$$

$$3x^2 + 5x + 2 =$$

$$= 3x^2 + 2x + 3x + 2 =$$

$$= 3x \cdot (x+1) + 2 \cdot (x+1) =$$

$$\underline{\underline{(3x+2) \cdot (x+1)}}$$

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$$2x^2 - x - 1 = 2x^2 - 2x + x - 1 = 2x(x-1) + 1(x-1) \\ = \underline{\underline{(2x+1)(x-1)}}$$

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$$x^3 - 7x + 6 = \\ = x^3 - x - 6x + 6 = x \cdot (x^2 - 1) - 6 \cdot (x - 1) = \\ = x \cdot \underline{(x-1)} \cdot (x+1) - 6 \cdot \underline{(x-1)} = \\ = (x-1) \cdot (x \cdot (x+1) - 6) = (x-1) \cdot (x^2 + x - 6) =$$

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$$x^3 - 3x^2 + 4$$

$$\{ 4 \Rightarrow \}$$

$$\{ -3x^2 \Rightarrow \}$$

$$x^3 - 12x + 16$$

$$\{ 16 \Rightarrow \}$$

$$2x^2 + x - 6$$

$$\{ x \Rightarrow \}$$

$$x^5 + x^3 - x^2 - 1$$

11 26-9:10

$$a^2 + 2ab + b^2 - 2ac - 2bc$$

$$3p^4 - p^3 + p - 3$$

$$8(2x+y)^2 - 18(x-2y)^2$$

· učebnice

· Petáková

11 26-9:25