

## Rozklad mnohočlenů na součin

c) pomocí vzťahů i vzorců

$$8x^2 - 8y^2 = 8 \cdot (x^2 - y^2) = 8 \cdot (x + y) \cdot (x - y)$$

$$6a^2 - 6 = 6 \cdot (a^2 - 1) = 6 \cdot (a + 1) \cdot (a - 1)$$

$$3y^3 - 75y = 3y \cdot (y^2 - 25) = 3y \cdot (y + 5) \cdot (y - 5)$$

$$2a^2 + 12a + 18 = 2 \cdot (a^2 + 6a + 9) = 2 \cdot (a + 3)^2$$

$$5xy^2 - 20x^3 = 5x \cdot (y^2 - 4x^2) = 5x \cdot (y + 2x) \cdot (y - 2x)$$

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

$$8a^2 - 50 = 2 \cdot (4a^2 - 25) = 2 \cdot (2a + 5) \cdot (2a - 5)$$

$$8x^2 - 24x + 18 = 2 \cdot (4x^2 - 12x + 9) = 2 \cdot (2x - 3)^2$$

$$\begin{aligned} 75a^2 + 90ab + 27b^2 &= 3 \cdot (25a^2 + 30ab + 9b^2) = \\ &= 3 \cdot (5a + 3b)^2 \end{aligned}$$

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$$\begin{aligned} 7a^2c^2 - 112a^2d^2 &= 7a^2 \cdot (c^2 - 16d^2) = \\ &= 7a^2 \cdot (c + 4d) \cdot (c - 4d) \end{aligned}$$