

23. 3. 2020

Př. 1: Rozlož na součin pomocí vytýkání:

$$ax + bx + cx + dx = x \cdot (a + b + c + d)$$

$$ax + by + cx + dy = ax + cx + by + dy = x(a + b) + y(b + d)$$

$$3a + 3b + ac + bc = 3(a + b) + c(a + b) = (a + b)(3 + c)$$

$$ax - ay + bx - by = a(x - y) + b(x - y) = (x - y)(a + b)$$

$$5u + 5 + uv + v = 5(u + 1) + v(u + 1) = (u + 1)(5 + v)$$

$$4a + 12 + ab + 3b = 4(a + 3) + b(a + 3) = (a + 3)(4 + b)$$

$$10ax + 2ay + 15bx + 3by = 2a(5x + y) + 3b(5x + y) = (5x + y)(2a + 3b)$$

$$xy + xz + y^2 + yz = x(y + z) + y(y + z) = (y + z)(x + y)$$

Př. 2: Rozlož na součin pomocí vytýkání:

$$pm - pq + 7m - 7q = p(m - q) + 7(m - q) = (m - q)(p + 7)$$

$$2ay - 8az + 3xy - 12xz = 2a(y - 4z) + 3x(y - 4z) = (y - 4z)(2a + 3x)$$

$$5ab - 5ac + 4bc - 4c^2 = 5a(b - c) + 4c(b - c) = (b - c)(5a + 4c)$$

$$qr + r + q + 1 = r(q + 1) + (q + 1) = (q + 1)(r + 1)$$

$$a^3 - a^2 + a - 1 = a^2(a - 1) + (a - 1) = (a - 1)(a^2 + 1)$$