

Př. 1: Uprav:

$$(2x + 3y)^2 = 4x^2 + 12xy + 9y^2$$
$$(5c + 4h)^2 = 25c^2 + 40ch + 16h^2$$
$$(0,4t + 0,8j)^2 = 0,16t^2 + 0,64tj + 0,64j^2$$
$$(1,6r + 0,9e)^2 = 2,56r^2 + 2,88re + 0,81e^2$$
$$(7p + 3q)^2 = 49p^2 + 42pq + 9q^2$$
$$(0,5y + 0,4)^2 = 0,25y^2 + 0,4y + 0,16$$

Př. 2: Uprav:

$$(c - 2d)^2 = c^2 - 4cd + 4d^2$$
$$(5 - k)^2 = 25 - 10k + k^2$$
$$(2a - 3s)^2 = 4a^2 - 12as + 9s^2$$
$$(10h - j)^2 = 100h^2 - 20hj + j^2$$
$$(1,2x - y)^2 = 1,44x^2 - 2,4xy + y^2$$
$$(5p - 6i)^2 = 25p^2 - 60pi + 36i^2$$
$$(3k - 2l)^2 = 9k^2 - 12kl + 4l^2$$
$$(7w - 3v)^2 = 49w^2 - 42wv + 9v^2$$
$$(4z - 7u)^2 = 16z^2 - 56zu + 49u^2$$
$$(rs - t)^2 = r^2s^2 - 2rst + t^2$$

Př. 3: Uprav:

$$(7q + 2w)^2 = 49q^2 + 28qw + 4w^2$$
$$(8e - 4r)^2 = 64e^2 - 64er + 16r^2$$
$$(12t + 7z)^2 = 144t^2 + 168tz + 49z^2$$
$$\left(\frac{2}{3}m - 6n\right)^2 = \frac{4}{9}m^2 - 8mn + 36n^2$$
$$(0,2o + 0,3p)^2 = 0,04o^2 + 0,12op + 0,09p^2$$
$$\left(\frac{2}{5}a - \frac{5}{2}b\right)^2 = \frac{4}{25}a^2 - 2ab + \frac{25}{4}b^2$$
$$\left(\frac{3}{7}s + \frac{7}{9}t\right)^2 = \frac{9}{49}s^2 + \frac{2}{3}st + \frac{49}{81}t^2$$
$$(0,25 - 10g)^2 = 0,0625 - 5g + 100g^2$$
$$(1,3j + 7u)^2 = 1,69j^2 + 18,2ju + 49u^2$$
$$\left(5a^2 - \frac{2}{5}b\right)^2 = 25a^4 - 4a^2b + \frac{4}{25}b^2$$
$$(a - 7m)^2 = a^2 - 14am + 49m^2$$
$$(r + 0,5s)^2 = r^2 + rs + 0,25s^2$$

Uprav pomocí součtových vzorců:

Vzor:

Př. 1:

$$(2x + 3y)^2 = 4x^2 + 12xy + 9y^2$$

Mgr. Z. Bureš