20. 3. 2020

Př. 1: Uprav pomocí součtového vzorce:

$(x+8).(x-8) = x^2 - 64$

$(x+6).(x-6) = x^2 - 36$

$(u+p).(u-p) = u^2 - p^2$

$(e+w).(e-w) = e^2 - w^2$

$(45+t).(45-t) = 2025 - t^2$

$(3x+20).(3x-20) = 9x^2 - 400$

$(3x+9).(3x-9) = 9x^2 - 81$

Př. 2: Uprav pomocí vzorce:

$(9a-4b).(9a+4b) = 81a^2 - 16b^2$

$(17x+8y).(17x-8y) = 289x^2 - 64y^2$

$(0{,}5r-0{,}4s).(0{,}5r+0{,}4s) = 0{,}25r^2 0{,}16s^2$

$(1{,}2d+8v).(1{,}2d-8v) = 1{,}44d^2 - 64v^2$

$(au+3).(au-3) = a^2u^2 - 9$

Př. 3:

$(a+4)^2 = a^2 + 8a + 16$

$(2a+3b)^2 = 4a^2 + 12ab + 9b^2$

$(5x+9m)^2 = 25x^2 + 90xm + 81m^2$

$(2a+0{,}5)^2 = 4a^2 + 2a + 0{,}25$

$(a-5)^2 = a^2 - 10a + 25$

$(6-6y)^2 = 36 - 72y + 36y^2$

$(8a+9b)^2 = 64a^2 + 144ab + 81b^2$

$(3a+10)^2 = 9a^2 + 60a + 100$

$(9x-1)^2 = 81x^2 - 18x + 1$

$(a+13)^2 = a^2 + 26a + 169$

$(4a+15)^2 = 16a^2 + 120a + 225$

Př. 4:

$\left(\frac{x}{15} - 5\right)^2 = \frac{x^2}{225} - \frac{2x}{3} + 25$

$\left(2x - \frac{1}{4}\right)^2 = 4x^2 - x + \frac{1}{16}$

$\left(\frac{8a}{3} - \frac{3}{4}\right)^2 = \frac{64a^2}{9} - 4a + \frac{9}{16}$

$\left(\frac{2e}{2} - \frac{3f}{4}\right)^2 = e^2 - \frac{3ef}{2} + \frac{9f^2}{16}$

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