

9. Doplňte tak, aby platila rovnost.

$$\begin{array}{llll}
 2x \cdot \underline{\hspace{2cm}} = 2x^3 & \underline{\hspace{2cm}} \cdot 3u = -6u^2 & 0,5t^2 \cdot \underline{\hspace{2cm}} = -t^2 & -7x \cdot \underline{\hspace{2cm}} = 49x^2 \\
 (-t) \cdot \underline{\hspace{2cm}} = -4t^2 & 2xy \cdot \underline{\hspace{2cm}} = -4x^2y & \underline{\hspace{2cm}} \cdot 2u = -4u^2v & 2a \cdot \underline{\hspace{2cm}} = 6ab^2 \\
 a \cdot \underline{\hspace{2cm}} \cdot b = 2ab^2 & 3p \cdot \underline{\hspace{2cm}} = 3pq^2 & \underline{\hspace{2cm}} \cdot b^4 = 3b^5 & xy^2 \cdot \underline{\hspace{2cm}} = 2x^2y^3
 \end{array}$$

10. Vydělte pro proměnné různé od nuly.

$$\begin{array}{llll}
 x^5 : x^2 = \underline{\hspace{2cm}} & z^8 : z^3 = \underline{\hspace{2cm}} & y^4 : y^4 = \underline{\hspace{2cm}} & 2q^2 : q = \underline{\hspace{2cm}} \\
 m^4 : m = \underline{\hspace{2cm}} & u^5 : u^5 = \underline{\hspace{2cm}} & h^3 : h^2 = \underline{\hspace{2cm}} & 12x^6 : 6x^2 = \underline{\hspace{2cm}} \\
 a^3 : a^3 = \underline{\hspace{2cm}} & m^6 : m^2 = \underline{\hspace{2cm}} & r^3 : r = \underline{\hspace{2cm}} & 5x^3 : 5x^2 = \underline{\hspace{2cm}} \\
 c^6 : c^5 = \underline{\hspace{2cm}} & p^7 : p^6 = \underline{\hspace{2cm}} & t^{10} : t^7 = \underline{\hspace{2cm}} & 3m^2 : 3m^2 = \underline{\hspace{2cm}} \\
 y^2 : y = \underline{\hspace{2cm}} & s^5 : s^2 = \underline{\hspace{2cm}} & a^6 : a^2 = \underline{\hspace{2cm}} & 9z^2 : 3z = \underline{\hspace{2cm}}
 \end{array}$$

11. Vydělte pro proměnné různé od nuly.

$$\begin{array}{lll}
 3m^7 : m^3 = \underline{\hspace{2cm}} & (-2v^6) : (-2v^3) = \underline{\hspace{2cm}} & 9u^2 : 9u = \underline{\hspace{2cm}} \\
 a^5 : (-a^2) = \underline{\hspace{2cm}} & 12c^7 : (-3c^4) = \underline{\hspace{2cm}} & (-6x^5) : (-6x) = \underline{\hspace{2cm}} \\
 (-5x) : 5x = \underline{\hspace{2cm}} & a^{11} : (-a^7) = \underline{\hspace{2cm}} & 10z^4 : (-5z^3) = \underline{\hspace{2cm}} \\
 (-4p^3) : (-p) = \underline{\hspace{2cm}} & (-3r^2) : (-r^2) = \underline{\hspace{2cm}} & 8q^9 : (-2q) = \underline{\hspace{2cm}}
 \end{array}$$

12. Vydělte pro proměnné různé od nuly.

$$\begin{array}{lll}
 2x : 2 = \underline{\hspace{2cm}} & (-4b^2) : 2b = \underline{\hspace{2cm}} & (-20b^2) : (-10b) = \underline{\hspace{2cm}} \\
 17^2 : x = \underline{\hspace{2cm}} & 56x^2y : 7xy = \underline{\hspace{2cm}} & 20x : (-5x) = \underline{\hspace{2cm}} \\
 a^3 : a = \underline{\hspace{2cm}} & 2abc : bc = \underline{\hspace{2cm}} & (-10t^2) : t^2 = \underline{\hspace{2cm}} \\
 2ab : b = \underline{\hspace{2cm}} & 12p^2q^2 : 6pq = \underline{\hspace{2cm}} & u^2v : uv = \underline{\hspace{2cm}} \\
 4t^2 : 2t = \underline{\hspace{2cm}} & 3a^2bc : a^2bc = \underline{\hspace{2cm}} & 16x^2y^2 : (-4y) = \underline{\hspace{2cm}}
 \end{array}$$

13. Vydělte pro proměnné různé od nuly.

$$\begin{array}{lll}
 8ab : (-4b) = \underline{\hspace{2cm}} & mn^3 : (-mn^2) = \underline{\hspace{2cm}} & (-4a^2) : 2a = \underline{\hspace{2cm}} \\
 7rs : (-7s) = \underline{\hspace{2cm}} & 2rs^3 : rs = \underline{\hspace{2cm}} & 10x^2y^3 : 5x^2 = \underline{\hspace{2cm}} \\
 9a^2x : 3ax = \underline{\hspace{2cm}} & (-6p^3) : (-2p) = \underline{\hspace{2cm}} & 32x^2y : (-8xy) = \underline{\hspace{2cm}} \\
 15uv^2 : 3uv = \underline{\hspace{2cm}} & 5z^2 : z = \underline{\hspace{2cm}} & l^3k^2 : lk = \underline{\hspace{2cm}}
 \end{array}$$

14. Vynásobte.

$$(2r + s) \cdot (r - 3s) = \underline{\hspace{10cm}}$$

$$(-2y + 4) \cdot (y - 1) = \underline{\hspace{10cm}}$$

$$(3x + 5) \cdot (-3 - 2x) = \underline{\hspace{10cm}}$$

$$(-u + 7) \cdot (-2u - 2) = \underline{\hspace{10cm}}$$

$$(3m - 4) \cdot (2m + 5) = \underline{\hspace{10cm}}$$

15. Vynásobte trojčlen dvojčlenem.

$$(x + 2) \cdot (x + y + 3) = \underline{\hspace{10cm}}$$

$$(a + b) \cdot (a - b + 1) = \underline{\hspace{10cm}}$$

$$(x - 1) \cdot (x^2 + x + 1) = \underline{\hspace{10cm}}$$

$$(a + 3) \cdot (2a^2 + 5a - 4) = \underline{\hspace{10cm}}$$

$$(a - 2) \cdot (a^3 - 2a^2 + 3a) = \underline{\hspace{10cm}}$$

16. Vypočítejte.

$$k^2 \cdot 3k \cdot k^3 = \underline{\hspace{2cm}} \quad x \cdot x^2 \cdot x^7 = \underline{\hspace{2cm}} \quad (-t^3) \cdot t^2 \cdot (-t) = \underline{\hspace{2cm}}$$

$$2a^3 \cdot ab \cdot b^4 = \underline{\hspace{2cm}} \quad 2k^4 \cdot k^3 \cdot (-k) = \underline{\hspace{2cm}} \quad b^2 \cdot (-6b) \cdot (-b) = \underline{\hspace{2cm}}$$

$$2m^3 \cdot m^2 \cdot 7 = \underline{\hspace{2cm}} \quad (-x^3) \cdot (-x^5) \cdot 2x = \underline{\hspace{2cm}} \quad (-2a) \cdot (-2a) \cdot a^3 = \underline{\hspace{2cm}}$$

$$(-a^2) \cdot a^3 \cdot 2a = \underline{\hspace{2cm}} \quad p^2 \cdot (-2p) \cdot 3p^5 = \underline{\hspace{2cm}} \quad 4c^2 \cdot (-c^2) \cdot 5c = \underline{\hspace{2cm}}$$

$$t^2 \cdot t^3 \cdot (-3t) = \underline{\hspace{2cm}} \quad l^3 \cdot (-l^3) \cdot 3l = \underline{\hspace{2cm}} \quad 2x \cdot (-2x^3) \cdot (-3x^2) = \underline{\hspace{2cm}}$$

17. Vydělte pro proměnné různé od nuly.

$$15a^3b : (-3ab) = \underline{\hspace{2cm}} \quad x^3y^4z^4 : (-xy^3z^2) = \underline{\hspace{2cm}}$$

$$2c^3x^5 : (-0,5c^2x^3) = \underline{\hspace{2cm}} \quad -10m^3n^4p^7 : (-4mn^3p^3) = \underline{\hspace{2cm}}$$

$$(-3d^3e^4) : 3d^2e^2 = \underline{\hspace{2cm}} \quad 6a^6b^4c^2 : (-2a^3b^2c) = \underline{\hspace{2cm}}$$

$$100a^3x^5y^3 : 25ax^2y^2 = \underline{\hspace{2cm}} \quad -5u^5v^5z^2 : (-5uv^2z^2) = \underline{\hspace{2cm}}$$

$$28m^5n^5 : (-4m^3n^2) = \underline{\hspace{2cm}} \quad 21x^3y^2z^2 : 7xyz = \underline{\hspace{2cm}}$$

$$-p^6q^3 : (-2p^3q^2) = \underline{\hspace{2cm}} \quad -d^5e^6f^3 : (-def^2) = \underline{\hspace{2cm}}$$

$$-6a^3b^4 : (-2a^2b^3) = \underline{\hspace{2cm}} \quad 6r^2s^3t^5 : (-3rs^3t) = \underline{\hspace{2cm}}$$