

PL – matematika, 9. ročník
Opakovanie mocnín

1. Vypočítajte:

$$(a^3)^5 =$$

$$(x \cdot y^2)^6 =$$

$$\left(\frac{a^6}{2s^9}\right)^3 =$$

$$(2a^3bc^5)^3 =$$

$$(-x^2y^3z)^6 =$$

$$(-4a^3b^2)^3 =$$

$$(2^2x^7y^3)^5 =$$

$$\left(\frac{2}{3}a\right)^4 =$$

$$\left(\frac{3x^3}{y^2z}\right)^2 =$$

$$(-1a^8b^2)^3 =$$

$$(-x^3y^4z^8)^4 =$$

$$\left(\frac{-2a^2}{3b}\right)^6 =$$

$$\left(\frac{2}{3}a\right)^3 =$$

$$(-4a^3b^2)^3 =$$

$$\left(\frac{3a^3b}{c^2}\right)^2 =$$

$$x^7 \cdot 3x^5 =$$

$$-3x^2 \cdot 5xy^2 =$$

2. Vydeľte:

a) $9^8 : 9^3 =$

b) $8^6 : 8^4 =$

c) $14^{10} : 14^{12} =$

d) $18a^6b^8 : 3a^5b^3 =$

e) $(x - 5)^3 : (x - 5)^2 =$

f) $(4 + b)^5 : (4 + b)^2 =$

c) $144a^3 : (-12a) =$

d) $18m^7n^8 : 9m^5n^3 =$

e) $-6m^{13} : (-3m^7) =$

f) $32a^5b^4 : 8a^5b^3 =$

g) $25a^{16}b^{20} : (-5a^8b^4) =$

3. Vypočítajte :

$$(-20)^2 =$$

$$800^2 =$$

$$\left(\frac{6}{7}\right)^2 =$$

$$\frac{(-3)^2}{7} =$$

$$(-0,02)^2 =$$

$$\frac{10^7 \cdot 10^5}{10^{10}} =$$

4. Vypočítajte:

a) $13x^2 - 5x^2 - 2x^2 + 9x^2 =$

b) $11a^2 - 16a + 8a^2 + 5a =$

c) $6,7t^3 - 5,2t^2 + 2,3t^3 - 1,8t^2 =$

d) $0,57k^5 + 5,46k^4 + 1,43k^5 - 0,46k^4 =$