

Darbības ar pakāpēm!

4. Atrodi ar zvaigznīti apzīmēto pakāpi!

$$\text{a) } 4^7 \cdot * = 4^{10}$$

$$4^7 \cdot 4^3 = 4^{10}$$

$$\text{b) } a^3 \cdot * = a^{3+4n}$$

$$a^3 \cdot a^{4n} = a^{3+4n}$$

$$a^{13} \cdot * = a^{17}$$

$$2^5 \cdot * = 2^{16}$$

$$b^{28} \cdot * = b^{35}$$

$$3^8 \cdot * = 3^{10}$$

$$c^{17} \cdot * = c^{25}$$

$$5^{10} \cdot * = 5^{30}$$

$$m^3 \cdot * = m^{19}$$

$$(-1)^{11} \cdot * = (-1)^{20}$$

$$a \cdot * = a^{1+m}$$

$$* \cdot (-2)^8 = (-2)^{12}$$

$$c^{2n} \cdot * = c^{2n+1}$$

$$* \cdot 7^{13} = 7^{18}$$

$$* \cdot x^n = x^{8+n}$$

$$* \cdot \left(\frac{1}{2}\right)^{12} = \left(\frac{1}{2}\right)^{21}$$

Atrodi ar zvaigznīti apzīmēto pakāpi!

$$\text{a) } * : 2^8 = 2^{10}$$

$$2^{18} : 2^8 = 2^{18-8} = 2^{10}$$

$$\text{b) } x^9 : * = x^{9-2n}$$

$$x^9 : x^{2n} = x^{9-2n}$$

$$* : 7^9 = 7$$

$$3,1^6 : * = 3,1^5$$

$$a^{19} : * = a^{13}$$

$$* : 12^m = 12^{8-m}$$

$$x^{20} : * = x^{12}$$

$$* : a^n = a^{12-n}$$

$$0,8^{35} : * = 0,8^{10}$$

$$* : y^{3n} = y^{5-3n}$$

$$\left(-\frac{1}{3}\right)^{11} : * = \left(-\frac{1}{3}\right)^8$$

$$* : 0,6^{2n} = 0,6^{9-2n}$$

1. Kāpini pakāpes!

$$a) (a^6)^3 = a^{6 \cdot 3} = \underline{a^{18}}$$

$$c) (-x^7)^2 = (-x)^{7 \cdot 2} = (-x)^{14} = \underline{x^{14}}$$

$$b) (-5^3)^7 = (-5)^{3 \cdot 7} = (-5)^{21} = \underline{-5^{21}}$$

$$d) -(2^3)^{4m} = -2^{3 \cdot 4m} = \underline{-2^{12m}}$$

$$(3^{12})^2$$

$$(2^*)^8 = 2^{16}$$

$$(-4^3)^{15}$$

$$(3^*)^2 = 3^{20}$$

$$(-6^4)^7$$

$$(-1^*)^{10} = 1^{50}$$

$$(-10^5)^6$$

$$(-2^*)^7 = -2^{21}$$

$$-(7^{15})^2$$

$$(0,5^*)^{12} = 0,5^{24}$$

$$(1,1^{12})^5$$

$$(3^{18})^* = 1$$

$$(19^{40})^3$$

Reizinājuma un dalījuma kāpināšana!

$$a) (a^* b^*)^6 = a^{12} b^{18}$$

$$b) (5x^3)^* = 5^{3n} x^{9n}$$

$$(a^2 b^3)^6 = a^{2 \cdot 6} b^{3 \cdot 6} = a^{12} b^{18}$$

$$(5x^3)^{3n} = 5^{3n} x^{3 \cdot 3n} = 5^{3n} x^{9n}$$

$$(3a^3 b^5)^* = 3^{10} a^{30} b^{50}$$

$$(a^* b^*)^7 = a^{14} b^{21}$$

$$(x^7 y^8)^* = x^{14} y^{16}$$

$$(x^* y^*)^8 = x^{40} y^{32}$$

$$(-a^{21} b^2)^* = a^{42} b^4$$

$$(4^* x^* y^*)^{10} = 4^{10} x^{20} y^{50}$$

$$(x^{10} y)^* = x^{30} y^3$$