

EXERCICES SUR LES PUISSANCES

Ecrivez aussi simplement que possible :

$$1) \left(-\frac{5}{7}a^3bc^4\right)^3 (7ab^3c^5)^2 \left(-\frac{1}{5}ab^7c^9\right)^4 =$$

$$2) (-3x^3y^7z^0)^4 (-3^2x^0yz^5)^3 =$$

$$3) \frac{(-5xy^3)^2 (-5^2x^4y^2)^5}{(-5^4x^4yz^0)^3} =$$

$$4) \frac{(-6ab^4c)^2}{(-2^3a^2c^3)^4} \div \frac{(-3abc)^2}{(-ab^2c^3)^5} =$$

$$5) (-5xy^3)^2 \left(-\frac{2}{3}x^3y\right)^3 \left(\frac{-9}{10}x^5y\right)$$

$$6) \frac{(-7a^3bx^4)^5 (-5ab^0x^7)^3}{(-35abx^3)(-7ax^4)^3}$$

$$7) \frac{-42xy^3z^4}{-30xy^2z^3} \div \frac{35x^3y}{(-xyz)^3}$$

$$8) \left(\frac{a^4b^2c^8}{a^5bc^6}\right)^3 \div \frac{(bc^2)^3}{a^3}$$

$$9) \frac{\frac{-2}{5}m^2p^4}{\frac{4}{25}mpq^3} \div \frac{5(-p^2q^4)^2}{2p^3q^{11}}$$

$$10) \left(-\frac{3}{2}x^2yz^5\right)^5 (2xy^5z)^4 \left(-\frac{1}{3}x^3y^2z^5\right)^3 =$$

$$11) (-2a^4b^2c)^8 (-5a^1b^4c^3)^5 (-5^1a^4b^3c^2)^3 =$$

$$12) \frac{(7p^2q^5)^6 (-7^3p^0q^7)^2}{(-7^4p^5q^{14})^3} =$$

$$13) \frac{(-11a^2b)^3}{(5^2 \cdot 11ab^4)^2} \div \frac{(-11ab^3)^5}{(-5 \cdot 11a^2b^7)^4} =$$