EXERCICIS DE POTÈNCIES D'EXPONENT NATURAL

1. Fes/completa les multiplicacions següents:

a) $10^2 \cdot 10^5 = 10$ $\quad$ $7^4 \cdot 7^2 = 7$ $\quad$ $^3 \cdot 11 = {}^5$

b) $3^2 \cdot 3 = 3^8$ $\quad$ $3^3 \cdot \ \cdot 3^5 = 3^{11}$ $\quad$ $\cdot 3^5 = 3^7$

c) $11 \cdot 11^3 = {}^6$ $\quad$ $19^5 \cdot 19^7 =$ $\quad$ $2^2 \cdot \ = 2^5$

2. Fes/completa les divisions següents:

a) $3^6 : 3^4 =$ $\quad$ $4^6 : \ = 4^3$ $\quad$ $: 5^5 = 5^2$

b) $\ : 7^2 = 7^5$ $\quad$ $12^7 : 12^4 =$ $\quad$ $6^{12} : \ ^5 = 6$

3. Completa les operacions següents:

a) $(7^3)^4 = 7$ $\quad$ $(3^3) = 3^{15}$ $\quad$ $(6\ )^6 = 6^{12}$ $\quad$ $(\ ^3)^5 = 9^{15}$

b) $(4^2) = 4^8$ $\quad$ $(2^5)^2 = 2$ $\quad$ $(5^3)^4 = {}^{12}$ $\quad$ $(10^2)^3 = 10$

4. Fes aquestes operacions combinades:

a) $(\ 3^5 : 3^2\ )^3 = (\ )^3 = 3$

b) $(\ 5^7 : 5^3\ ) \cdot (\ 5^6 : 5^2\ ) = 5 \cdot 5 =$

c) $(10^3)^4 : (\ 10^2 \cdot 10^3\ ) = \ : \ =$

d) $(4^2)^3 \cdot (4^5)^2 = \ \cdot \ =$

e) $(\ 6^5 : 6^2\ ) \cdot (6^3)^4 = \ \cdot \ =$