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Ejercicios:

a) $3^3 = 9$

b) $3(4)^2 = 12^2 =$

c) $2^4 \cdot 2^3 = 2^7$

d) $4^2 \cdot 3^2 = 12^2$

e) $\frac{5^6 \cdot 5^3}{5^5} = 5^8 = 5^3$

f) $\frac{3^4 \cdot 3^8}{3^6 \cdot 3^5} = 3^{12} \cdot 3^{11} = 3^{23}$

$$g) \frac{7^5}{7^3 \cdot 7^4} = \frac{7^5}{7^7} = 7^{(5-7)} = 7^{-2} = \frac{1}{7^2}$$

$$h) (3^2)^3 = 3^6$$

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$$i) \left(\frac{1}{2}\right)^6 \cdot 2^5 = \frac{1^6}{2^6} = \frac{1 \cdot 6}{2 \cdot 6} = \frac{6}{12} \cdot 2^5 = \frac{12^5}{12} = 24^5$$

$$j) \frac{(-2)^3 \cdot (2)^3}{3(2^2)^2} = \frac{-2^6}{6^4} = -8^{10}$$

$$k) \frac{3(-3)^2 + 4(-2)^3}{2^5 - 3^2} = \frac{27^2 + -8^3}{6^5} = \frac{-19^5}{6^5} = -19^5 - 6^5 = -13^5$$

$$1) \frac{5^7}{5^4} + \frac{2^{10}}{8^2 \cdot (-2)^3} - 4(-3)^4$$

$$5^3 + \frac{2^{10}}{8^2 \cdot (-2)^3} - 4(-3)^4$$

$$125 - \frac{2^7}{2^6} + 12 = 125 - 2 + 12 = 135$$