

Savoir SL. 1 : Opérations sur les puissances

$$a^0 = 1 \text{ et } a^1 = a$$

$$(-3)^0 =$$

$$\left(\frac{2}{5}\right)^1 =$$

$$a^n \times a^p = a^{n+p}$$

$$\left(\frac{2}{5}\right)^3 \times \left(\frac{2}{5}\right)^n =$$

$$(-1)^{n+4} =$$

$$a^{n+1} = a \times a^n$$

$$3^{n+1} =$$

$$\left(\frac{2}{5}\right) \times \left(\frac{2}{5}\right)^p =$$

$$(a^n)^p = a^{np}$$

$$(2^n)^4 =$$

$$\left(\frac{2}{5}\right)^{3p} =$$

$$(a^2)^n = a^{2n}$$

$$5^{2n} =$$

$$4^n =$$

$$(-1)^{2n} = 1 \text{ et } (-1)^{2n+1} = -1$$

$$(-1)^7 =$$

$$(-1)^{12} =$$

$$-1^8 =$$

$$a^{-n} = \frac{1}{a^n}$$

$$\frac{1}{3^4} =$$

$$4^{1-n} =$$

$$a^{-1} = \frac{1}{a}$$

$$\frac{1}{2} =$$

$$\left(\frac{2}{5}\right)^{-1} =$$

$$\frac{a^n}{a^p} = a^{n-p}$$

$$\frac{5^n}{5^2} =$$

$$3^{1-n} =$$

$$a^n = \frac{a^{n+1}}{a} = \frac{1}{a} \times a^{n+1}$$

$$\frac{1}{2} \times 2^{n+1} =$$

$$a^n b^n = (ab)^n$$

$$2^n \times 3^n =$$

$$14^n =$$

$$(-a)^n = (-1)^n \times a^n$$

$$(-3)^{2n} =$$

$$(-n)^7 =$$

$$\frac{a^n}{b^n} = \left(\frac{a}{b}\right)^n$$

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

$$\frac{2^{n+1}}{5^n} =$$

$$\left(\frac{1}{a}\right)^n = \frac{1}{a^n}$$

$$\left(\frac{1}{3}\right)^n =$$

$$\frac{1}{2^n} =$$

$$a = \frac{a^{n+1}}{a^n}$$

$$5 =$$

$$\frac{4^n}{4^{n+1}} =$$

$$\sqrt{a} = a^{\frac{1}{2}}$$

$$16^{0,5} =$$

$$\sqrt{5} =$$