

156 Pour $x > 0$,

$$10^{3 \log(x) + 2} = 10^{3 \log(x)} \times 10^2$$

$$10^{3 \log(x) + 2} = 10^{\log(x^3)} \times 100$$

$$10^{3 \log(x) + 2} = x^3 \times 100 \text{ car } 10^{\log(x^3)} = x^3$$

$$\text{soit } 10^{3 \log(x) + 2} = 100x^3.$$