

exercice 1

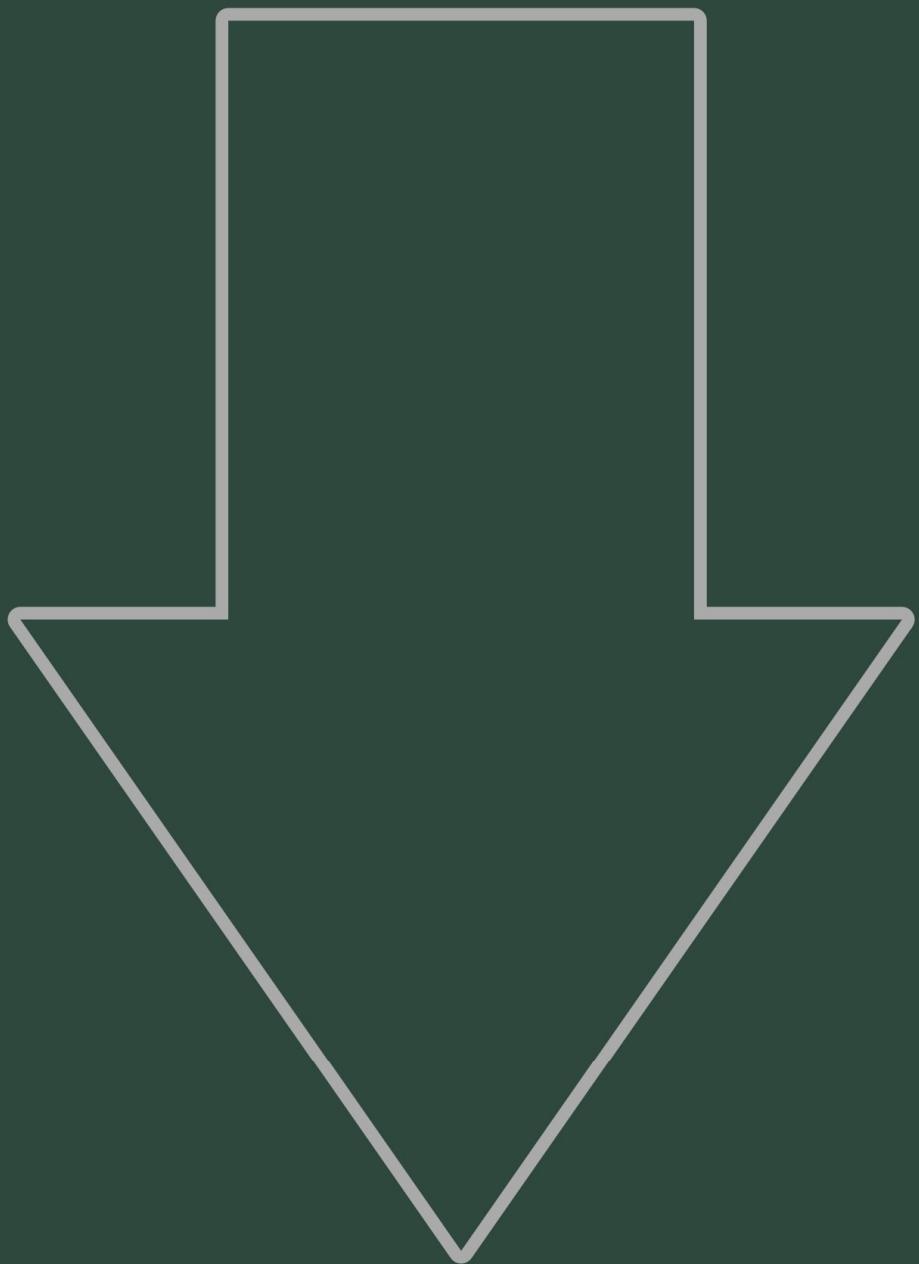
$$x^x^{77} = 77$$

$$x = ?$$

exercice 2

$$(y - 4)^4 = y^4$$

$$y = ?$$



----- QUESTION -----

$$x^x^{77} = 77$$

$$x = ?$$

$$(y - 4)^4 = y^4$$

$$y = ?$$

----- RÉPONSE (YT) -----

----- premier exercice -----

$$x^x^{77} = 77$$

$$x^x^{77^{77}} = 77^{77}$$

$$\text{rappel: } a^m^n = a^{(mn)} = a^{n^m}$$

$$x^{77^{77}} = 77^{77}$$

$$\text{rappel: } a^a = b^b \Rightarrow a = b$$

$$x^{77} = 77$$

$$\sqrt[77]{x^{77}} = \sqrt[77]{77}$$

$$x = \sqrt[77]{77}$$

| $x = \sqrt[77]{77}$ |

----- deuxième exercice -----

$$(y - 4)^4 = y^4$$

$$(y - 4)^4 - y^4 = 0$$

$$((y - 4)^2)^2 - (y^2)^2 = 0$$

$$((y - 4)^2 - y^2)((y - 4)^2 + y^2) = 0$$

(à suivre)

