15/12/2017 PA4.434 N57

$$26 \cdot 2^{\times} = 4 \cdot 5^{\times} + 2^{\times}$$

$$26 \cdot 2^{\times} - 2^{\times} = 4 \cdot 5^{\times}$$

$$2^{\times}(26 - 1)$$

$$2^{\times}(26 - 1)$$

$$2^{\times}(25 \cdot 2^{\times} = 4 \cdot 5^{\times})$$

$$3^{\times} - 9. \frac{\sqrt{3}}{\sqrt[5]{9}} = 0$$

$$3^{\times} - 3^{2} \cdot \frac{3^{\frac{1}{2}}}{3^{\frac{2}{5}}} = 0$$

$$3^{\times} - 3^{2 + \frac{1}{2} - \frac{2}{5}} = 0$$

$$3^{\times} = 3^{\frac{20+5-4}{10}}$$

$$X = \frac{21}{10}$$

$$2^{x} + 2^{x+1} = -2^{x-1} + 7$$

$$t = 2^{x}$$

$$2^{x} + 2^{x} \cdot 2^{1} = -2^{x} \cdot 2^{-1} + 7$$

$$t + 2t = -\frac{1}{2}t + 7$$

$$2t+4t=-t+14$$
  $7t=14$   $t=2$ 

$$7t = 14$$

$$X = 1$$

$$3^{x+2} = 2^{2x+4}$$

$$3^{x} \cdot 3^{2} = 2^{2x} \cdot 2^{4}$$

$$3^{x} \cdot 3^{2} = 2^{2x} \cdot 2^{4}$$

$$2^{4} = (2^{2})^{2}$$

$$\frac{3^{x}}{2^{2x}} = \frac{2^{4}}{3^{2}}$$

$$\frac{3^{x}}{4^{x}} = \frac{4^{2}}{3^{2}}$$

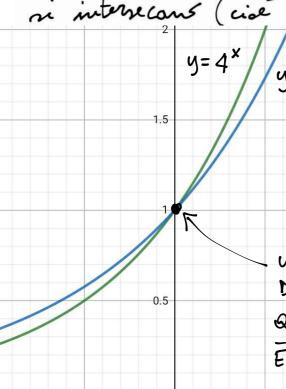
$$(\frac{3}{4})^{x} = (\frac{3}{4})^{-2} \implies x = -2$$

## MODO ALTERNATIVO

$$3^{x+2} = 2^{2x+4} = 3^{x+2} = 2^{2(x+2)}$$

$$= 3^{x+2} = 4^{x+2}$$

Barofici della funcioni  $y=3^{\times}$  e  $y=4^{\times}$ ni intersecone (cioè sono "rapoli") solo per x=0  $y=4^{\times}/y=3^{\times}$  x+2=0



$$10^{x} + 10^{2-x} = 101$$

$$10^{x} + 10^{2} \cdot 10^{-x} = 101$$

$$10^{x} + \frac{10^{2}}{10^{x}} = 101$$

$$10^{x} + \frac{10^{2}}{10^{x}} = 101$$

$$10^{x} + \frac{100}{10^{x}} = 101$$

$$10^{x} = 1$$

6 X = 3