

Data la funzione $f(x) = \frac{4x-5}{3}$, trova $f^{-1}(x)$ e calcola $f^{-1}(3)$. $f^{-1}(x) = \frac{3x+5}{4}; f^{-1}(3) = \frac{7}{2}$ \$:R→R y = 4x - 53y = 4x - 54X = 3y + 5 $x = \frac{39+5}{4}$ $y = \frac{3 \times 15}{4}$ $f^{-1}: \mathbb{R} \to \mathbb{R} \qquad f^{-1}(x) = \frac{3x+5}{4}$ $(3) = \frac{3 \cdot 3 + 5}{4} = \frac{14}{4} = \frac{7}{2}$ Verifiere che é invertible e $y = \sqrt[3]{3x - 1}$ tronge l'invers Per verifique che è invertibile dollians controlore che sia iniettiva. $f: \mathbb{R} \to \mathbb{R}$ $f(x) = \sqrt[3]{3x-1}$ dollians for redere che $\forall x_1, x_2 \in D$ $f(x_1) = f(x_2) \Longrightarrow x_1 = x_2$ $f(x_1) = f(x_2) \implies \sqrt{3} \times 1 - 1 = \sqrt{3} \times 2 - 1$ $3 \times 1 - 1 = 3 \times 2 - 1$ $3 \times 1 = 3 \times 2$ $3 \times 1 = 3 \times 2$ $3 \times 1 = 3 \times 2$ $4 = 3 \times 2$ $3 \times 1 = 3 \times 2$ $3 \times 1 = 3 \times 2$ $4 = 3 \times 2$ $3 \times 1 = 3 \times 2$ $3 \times 1 = 3 \times 2$ $4 = 3 \times 2$ $3 \times 1 = 3 \times 2$ $3 \times 1 = 3 \times 2$ $4 \times 1 = 3 \times 2$ $3 \times 1 = 3 \times 2$ $4 \times 1 = 3 \times 2$ $3 \times 1 = 3 \times 2$ $4 \times 1 = 3 \times 2$ $3 \times 1 = 3 \times 2$ $4 \times 1 = 3 \times 2$ $3 \times 1 = 3 \times 2$ $4 \times 1 = 3 \times 2$ $3 \times 1 = 3 \times 2$ $4 \times 1 = 3 \times 2$ $3 \times 1 = 3 \times 2$ $4 \times 1 = 3 \times 2$ $3 \times 1 = 3 \times 2$ $4 \times 1 = 3 \times 2$ $3 \times 1 = 3 \times 2$ $3 \times 1 = 3 \times 2$ $4 \times 1 = 3 \times 2$ $4 \times 1 = 3 \times 2$ $4 \times 1 = 3 \times 2$ $5 \times 1 = 3 \times 2$ $4 \times 1 = 3 \times 2$ $4 \times 1 = 3 \times 2$ $4 \times 1 = 3 \times 2$ $5 \times 1 = 3 \times 2$ $5 \times 1 = 3 \times 2$ $7 \times 1 = 3 \times 2$ $8 \times 1 = 3 \times 2$ $8 \times 1 = 3 \times 2$ $8 \times 1 = 3 \times 2$ $9 \times 1 = 3 \times 2$ $9 \times 1 = 3 \times 2$ $1 \times 1 = 3 \times 2$

quindi f é iniettira, e duque invertible

