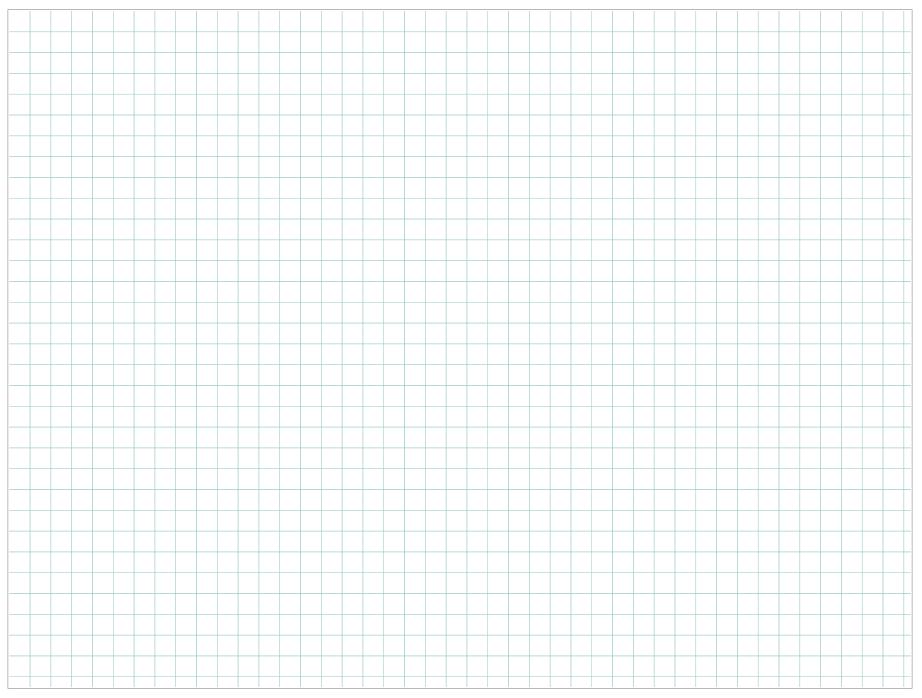
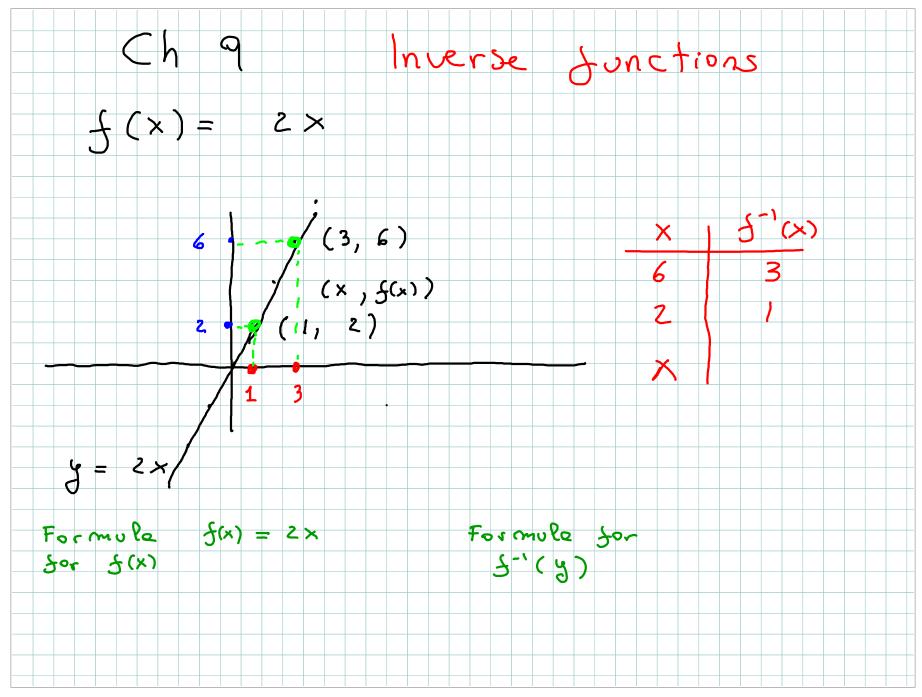
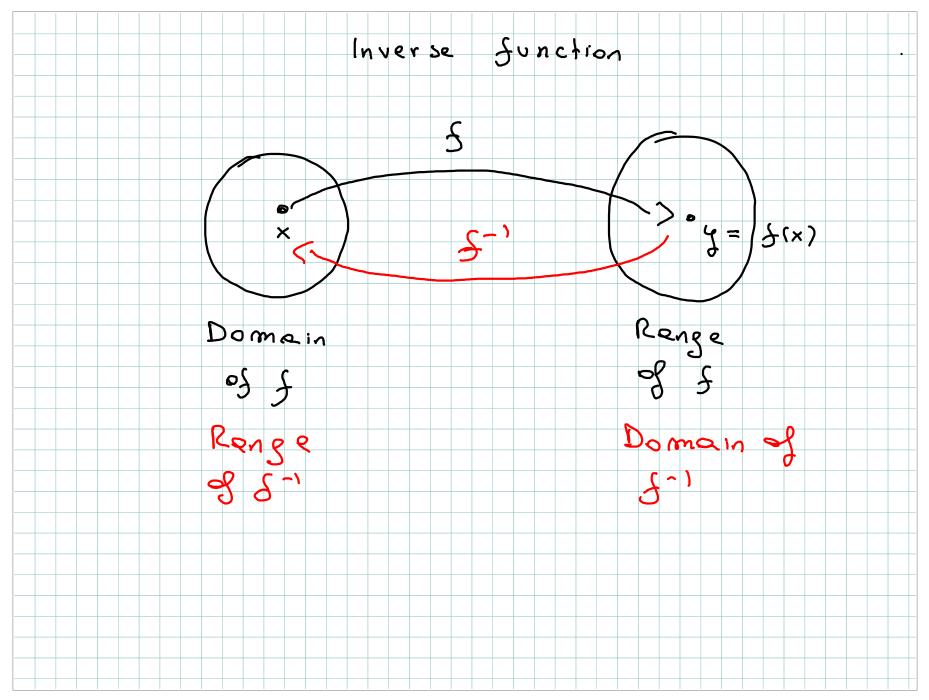


$$\begin{bmatrix} 1 & x & 1 & 1 & x & 1 \\ 0 & x & 1 & 1 & x & 1 \\ 0 & x & 1 & 1 & 1 & x & 1 \\ 0 & x & 1 & 1 & 1 & 1 & x & 1 \\ 0 & x & 1 & 1 & 1 & 1 & 1 \\ 0 & x & 1 & 1 & 1 & 1 & 1 \\ 0 & x & 1 & 1 & 1 & 1 & 1 \\ 0 & x & 1 & 1 & 1 & 1 & 1 \\ 0 & 1 & 1 & 1 & 1 \\ 0 & 1 & 1 & 1 & 1 \\ 0 & 1$$



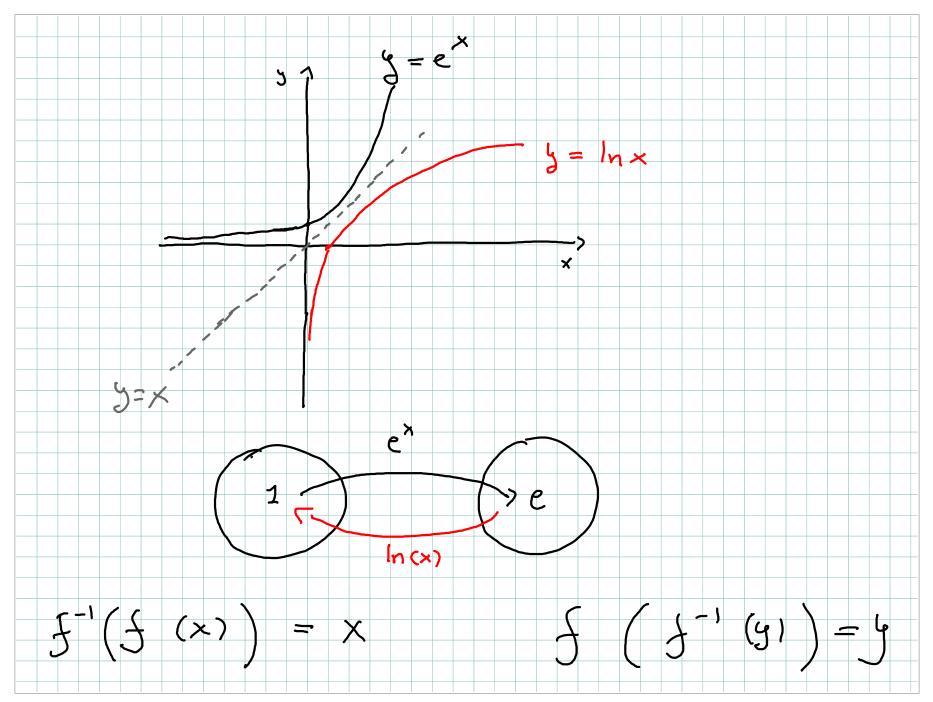


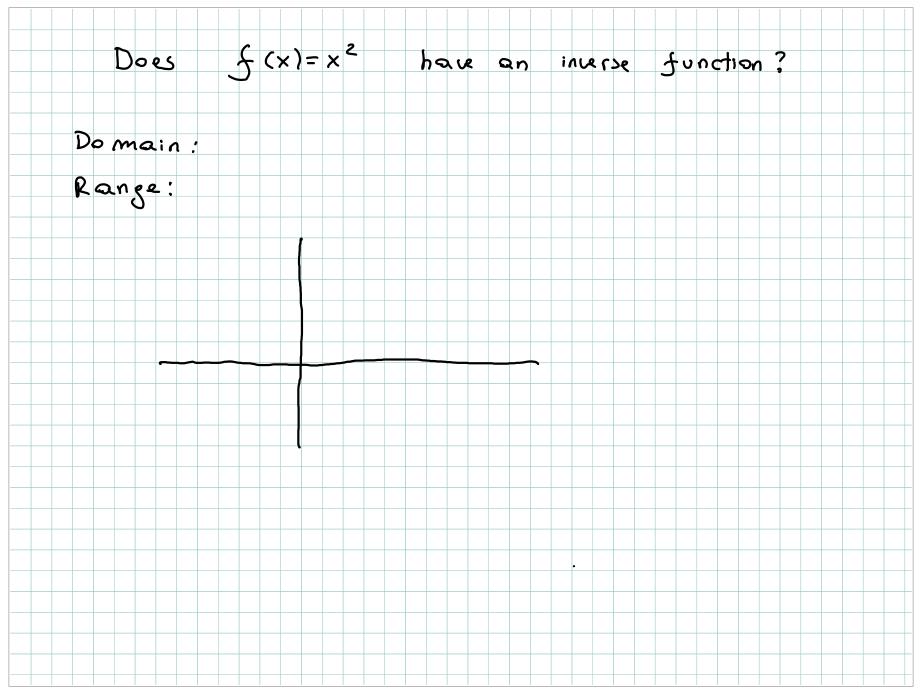


- The graph of f<sup>-1</sup>(y) is the graph of f(x) flipped around the line y = x
- ▶ Domain  $f^{-1}$  = Range f. Range  $f^{-1}$  = Domain f
- ► To find a formula for  $f^{-1}$  set y = f(x) and solve for x

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Given g(x)=2x-1 on the domain  $0\leq x\leq 5$  . Is g invertible ? If it is find the inverse , its domain and its range

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Given  $f(x) = \frac{2}{x-6}$ . Is g invertible ? If it is find the inverse , its domain and its range

Explain why  $f(x) = -2x^2 + 60x$  is not invertible.

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What is the inverse of  $f(x) = -2x^2 + 60x$  on  $[15, +\infty)$ 

What is the inverse of  $f(x) = -2x^2 + 60x$  on  $(-\infty, 15]$ 

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Suppose p is the price of an item and q = f(p) is the number of items sold at that price. Explain in words the meaning of: f(25)

 $f^{-1}(30)$ 

