

# INVERSE FUNCTIONS

MATH 73

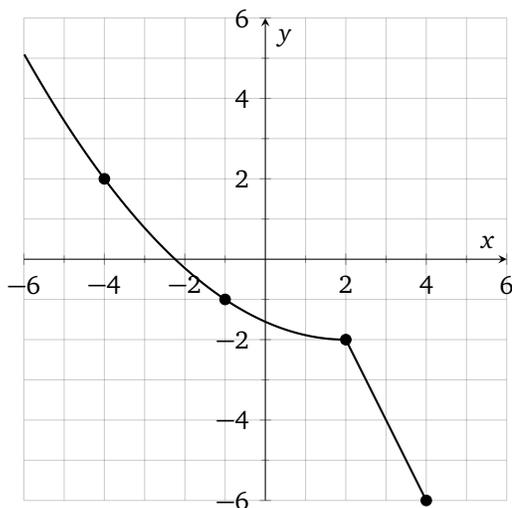
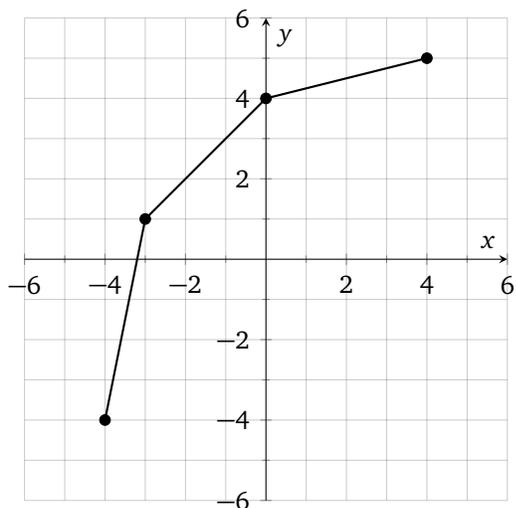
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1 (4 points). Find an expression for the inverse function for each of the given ones:

(a)  $F(x) = -\frac{3}{2}x + 6$

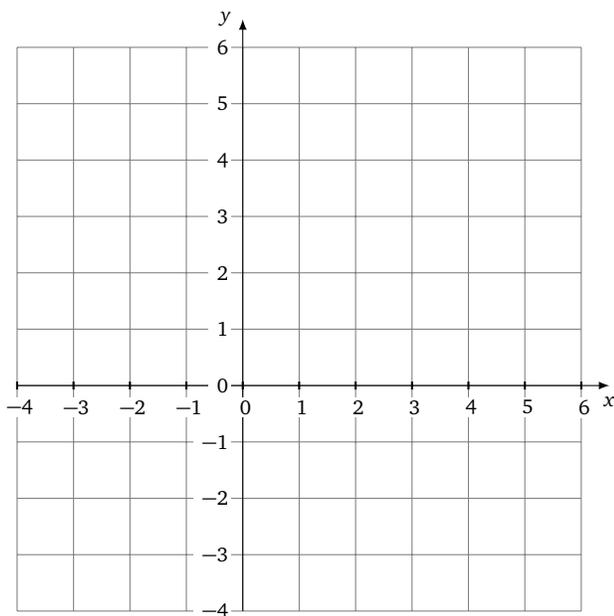
(b)  $G(x) = \frac{(x-1)^3}{8}$

2 (2 points). Plot the inverse of the given function.



3 (6 points). Given the function  $H(x) = \sqrt{x+2} + 1$ , use the provided grid to

- (a) Plot the graph of  $H(x)$
- (b) Plot the graph of the inverse function  $H^{-1}(x)$



(c) Find an expression for  $H^{-1}(x)$