




Alg 2 1.5 Homework

Question 1.

The tables show a function and its inverse. Drag and drop the number tiles into the correct box to complete the table for the inverse of the function. Then choose whether the inverse is a function, and complete the explanation of your reasoning.

Function	
Domain	Range
13	15
33	31
11	44
27	5
18	40

Inverse of Function	
Domain	Range
15	
31	33
44	
5	27
40	

13

17

36

18

11



The inverse a function, because for each input there .

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Question 2.

Enter the inverse of the given function as a set of ordered pairs and then plot the points of the inverse on the coordinate plane.

The function is $(-4, -3), (-2, -4), (0, -2), (2, 0), (2, 1)$.

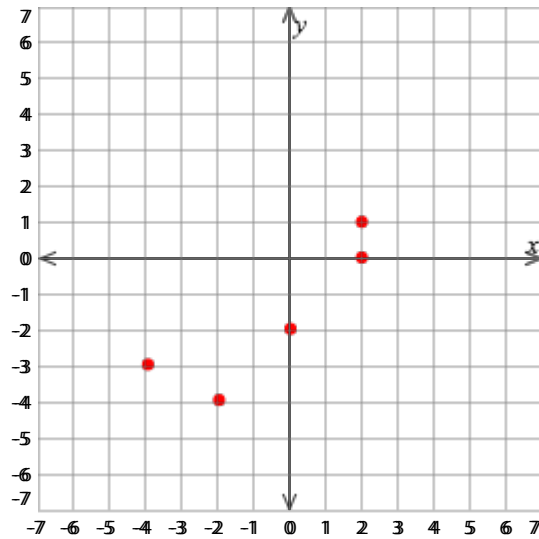
Part 1

The inverse function as a set of ordered pairs is

(,), (,), (,), (,), (,) .

Part 2

Plot blue points to represent the inverse set of ordered pairs.



- $(-3, -4)$ $(-4, -2)$ $(-2, 0)$ $(0, 2)$ $(1, 2)$



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Question 3.

Find the inverse function $f^{-1}(x)$ for the given function $f(x)$.

$$f(x) = 5x - 8$$

$$f^{-1}(x) = \text{[]}$$

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Question 4.

Find the inverse function $f^{-1}(x)$ for the given function $f(x)$.

$$f(x) = \frac{x + 7}{6}$$

$$f^{-1}(x) = \boxed{}$$

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Question 5.

For the given function, determine the domain of the inverse function. Then find an equation for the inverse function, and graph it. Interpret the meaning of the inverse function.

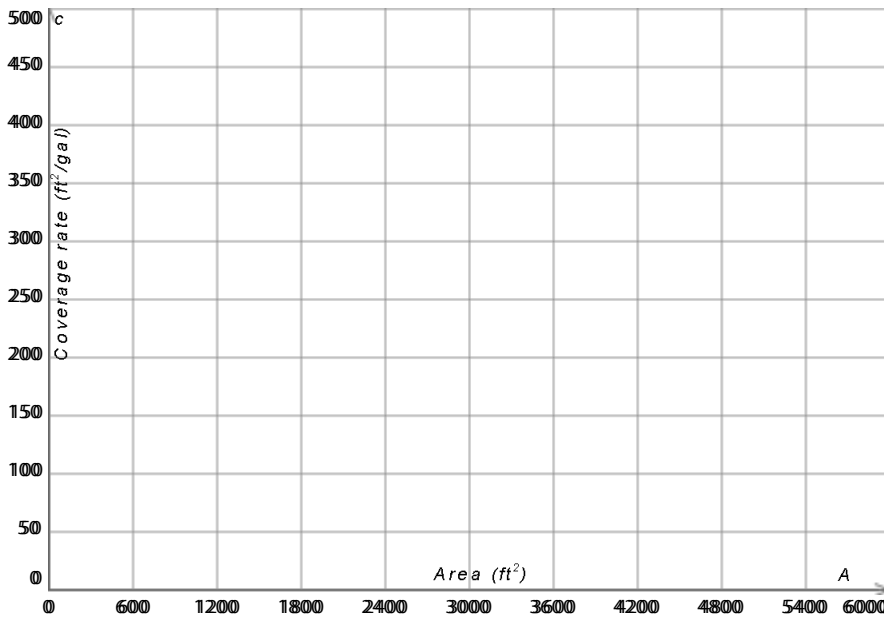
Part 1

The label on a gallon of paint says that it will cover from 250 square feet to 450 square feet depending on the surface that is being painted. A painter has 12 gallons of paint on hand. The equation $A = 12c$ gives the area A (in square feet) that the 12 gallons of paint will cover if applied at a coverage rate c (in square feet per gallon).

The domain of the inverse function is $\{A \mid \square \leq A \leq \square\}$.

The inverse function is $c = \square$.

Graph the inverse function.



 inverse function



Part 2

The inverse function gives the (select) at which 12 gallons of paint must be applied as a function of the (select) .