

Name:

Assignment $\{ 5.1.1 \}$

Secondary Math III

On the following problems, find the inverse of each function.

1. $h(x) = \frac{3x-2}{6}$

2. $g(x) = \frac{2}{3}x - 5$

3. $h(x) = 6x + 5$

4. $f(x) = -\frac{1}{2}x$

5. $k(x) = 5(x - 1)$

6. $h(x) = 2x^2 - 7$

CPM Review & Preview Problems

5-8.

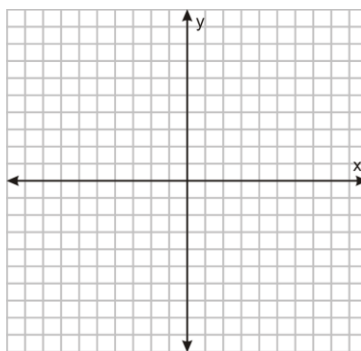
Make a table of $y = \frac{1}{2}x - 3$ and its inverse function.

Original	
x	y

Inverse	
x	y

a. What is the relationship between the table for the original function and its inverse?

b. Graph $y = \frac{1}{2}x - 3$ and its inverse function on the same set of axes.



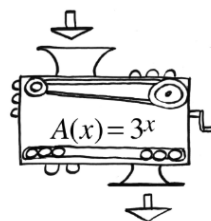
c. What is the equation of the inverse function?

d. Does the graph of the two lines have a line of symmetry? If so, what is the equation of the line of symmetry?

5-9.

Antonio's function machine is shown at right. [Homework](#)

[Help](#)



a. What is $A(2)$?

b. If 81 came out, what was dropped in?

c. If 8 came out, what was dropped in? Be accurate to two decimal places.

5-12.

Tasha only has \$3 saved but has a goal of doubling the total amount of money she has saved every month. [Homework Help](#)

a. Write an equation for the total amount of money Tasha has saved after x months.

b. Tasha's brother Clifton is going to copy Tasha's savings plan exactly, but because he wants to always have more money than her, so he has \$10 saved and hiding in his dresser. Write an equation for the total amount of money Clifton has saved after x months.

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