

Name: _____ Date: _____ Period: _____

Lesson 1.07 Homework

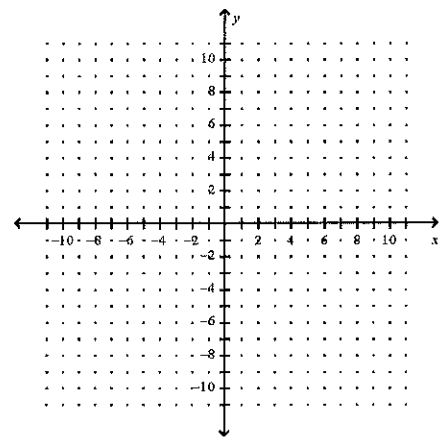
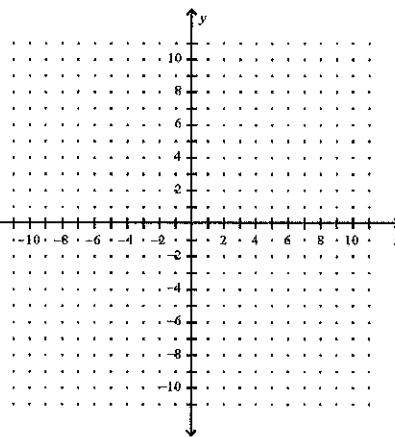
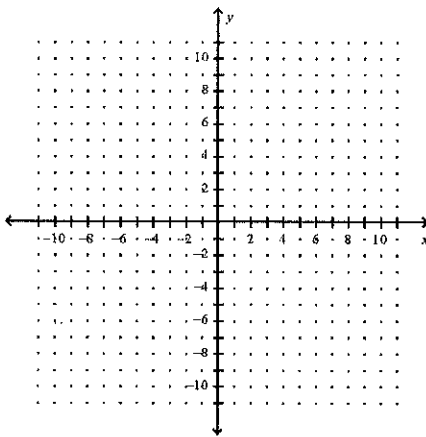
Finding Inverse Functions Graphically & Algebraically

Graph the given function, the linear parent function, and its inverse on the same graph. Be sure to label each function.

1a. $f(x) = \frac{2}{3}x + 2$

2a. $h(x) = \frac{1}{4}x$

3a. $g(x) = -3x - 6$



Use the graphs to complete the tables below. Pick any points for the original and use the related points for the inverse.

1b.

Original	
x	y

Inverse	
x	y

2b.

Original	
x	y

Inverse	
x	y

3b.

Original	
x	y

Inverse	
x	y

Find the inverse of each relation.

4. $\{(0,5), (2,6), (3,3), (7,8)\}$

5. $\{(0,3), (4,2), (5,-6), (7,3)\}$

Is the original relation a function? Explain.

Is the original relation a function? Explain.

Is the inverse a function? Explain.

Is the inverse a function? Explain.

Find the inverse of the following functions algebraically.

6. $f(x) = x - 1$

7. $h(x) = \frac{1}{4}x + 2$

8. $f(x) = 5$

9. $h(x) = -3x$

10. $h(x) = 6x - 2$

11. $g(x) = 5x - 5$