Topic: Functions   Inverse Functions

Find the Inverse of Functions

For each of the following functions, find the inverse.

1. $f(x) = 3x + 6$

2. $g(x) = x^2 - 4$

3. $h(x) = \sqrt{x - 7}$

4. $j(x) = -2x + 9$

5. $b(x) = 2x^2 + 5$

6. $d(x) = \sqrt[3]{5x + 2}$

Use composition of functions to prove the functions are inverses of each other.

7. $f(x) = x^2 - 4$ and $g(x) = \sqrt{x - 4}$

8. $f(x) = 3x - 6$ and $g(x) = \frac{1}{3}x + 2$