Nine Questions from Chapter 8

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| 1. Let the function 2. What is the domain? 3. What is the range? 4. What is its inverse? | 1. f(x) = 2x2 – 1 g(x) = -4x 2. Find f(g(3)) 3. Find g(f(3)) |
| 1. Find the inverse of the function algebraically.   y = -4x - 6 | 1. Solve for x: |
| 1. Write  as a fraction. Simplify completely. | 1. Solve for x: |
| 1. Simplify: | 1. Simplify: |
| 1. Simplify: | |

Answers to Nine Questions from Chapter 8

1. a) {8, 3, -5} b) {4, -7, 2} c) {(4, 8), (-7, 3), (2, -5)}

2. a) f(g(3)) = 391 b) g(f(3)) = -68

3. Switch x and y values: Solve for y: x = -4y – 6

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4. 

5. 

6. Raise both sides to the  power and solve for x: **x = 129**

7. 

8. 

9. 