

Math 1513 - College Algebra

Week 12 Discussion Board Questions

For each of the following functions $f(x)$, find $f^{-1}(x)$. Also verify that $(f \circ g)(x) = (g \circ f)(x) = x$.

1.

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

2.

$$f(x) = 8 - \frac{2}{3x}$$

3.

$$f(x) = 4x - 2$$

4.

$$f(x) = 6 - 2x$$

5.

$$f(x) = 9 + 3x$$

6.

$$f(x) = \frac{2}{5+3x}$$

7.

$$f(x) = \frac{5+3x}{2}$$

8.

$$f(x) = \frac{7}{2}x - 3$$

9.

$$f(x) = \frac{7}{2x} + 8$$

10.

$$f(x) = \frac{8x+9}{x}$$

11.

$$f(x) = \frac{x}{8x+9}$$

12.

$$f(x) = \frac{3-x}{3+x}$$

13.

$$f(x) = \frac{3-2x}{4-3x}$$

14.

$$f(x) = 6 + 8x$$

15.

$$f(x) = \frac{4x-8}{7x+6}$$