

Name: _____

L2S2

Inverse of Functions

Find the inverse of each function.

1) $f(x) = 15 - 5x$

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

3) $f(x) = \frac{9x + 14}{2x}$

5) $f(x) = e^x - 13$

7) $f(x) = \log_4 x$

8) $f(x) = \sqrt[5]{7x^3 + 10}$

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Inverse of Functions

Find the inverse of each function.

1) $f(x) = 15 - 5x$

$$f^{-1}(x) = \frac{-x + 15}{5}$$

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

$$f^{-1}(x) = \log_8(x - 6)$$

3) $f(x) = \frac{9x + 14}{2x}$

$$f^{-1}(x) = \frac{-14}{2x - 9}$$

5) $f(x) = e^x - 13$

$$f^{-1}(x) = \log_e(x + 13)$$

7) $f(x) = \log_4 x$

$$f^{-1}(x) = 4^x$$

8) $f(x) = \sqrt[5]{7x^3} + 10$

$$f^{-1}(x) = \sqrt[3]{\frac{x^5 - 10}{7}}$$

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