

Name: _____

L2S3

Inverse of Functions

Find the inverse of each function.

1) $f(x) = 7x^3 - 13$

2) $f(x) = \frac{x}{4x + 9}$

3) $f(x) = 5\log_3(8x + 11)$

5) $f(x) = \frac{9}{5 - 6x}$

7) $f(x) = 10 - 3x$

8) $f(x) = x^9 + 12$

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Inverse of Functions

Find the inverse of each function.

1) $f(x) = 7x^3 - 13$

$$f^{-1}(x) = \sqrt[3]{\frac{x+13}{7}}$$

2) $f(x) = \frac{x}{4x+9}$

$$f^{-1}(x) = \frac{-9x}{4x-1}$$

3) $f(x) = 5\log_3(8x+11)$

$$f^{-1}(x) = \frac{3^{\frac{x}{5}} - 11}{8}$$

5) $f(x) = \frac{9}{5-6x}$

$$f^{-1}(x) = \frac{5x-9}{6x}$$

7) $f(x) = 10 - 3x$

$$f^{-1}(x) = \frac{-x+10}{6}$$

8) $f(x) = x^9 + 12$

$$f^{-1}(x) = \sqrt[9]{x-12}$$

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