Name: _____

# Inverse of Functions

L2S1

Find the inverse of each function.

1) $f(x) = \dfrac{x + 11}{x - 12}$

2) $f(x) = \sqrt{4x + 7}$

3) $f(x) = 5x^3 - 6$



5) $f(x) = \sqrt[3]{9x - 8}$

7) $f(x) = e^x$

8) $f(x) = \log_2 x - 10$

Name: _____

**Answer key**

# Inverse of Functions

L2S1

Find the inverse of each function.

1) $f(x) = \dfrac{x + 11}{x - 12}$

$f^{-1}(x) = \dfrac{12x + 11}{x - 1}$

2) $f(x) = \sqrt{4x + 7}$

$f^{-1}(x) = \dfrac{x^2 - 7}{4}$

3) $f(x) = 5x^3 - 6$

$f^{-1}(x) = \sqrt[3]{\dfrac{x + 6}{5}}$



5) $f(x) = \sqrt[3]{9x - 8}$

$f^{-1}(x) = \dfrac{x^3 + 8}{9}$

7) $f(x) = e^x$

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

8) $f(x) = \log_2 x - 10$

$f^{-1}(x) = 2^{(x + 10)}$